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Inside Dope

By George F. Taubeneck

Research Corp. Offers \$2,500,000
For Postwar Collegiate Research
Grants Begin Soon
Scientists for Next Generation
Return to Peace-Time Footing
Grants Made from
Patent Revenues

Research Corp. Offers \$2,500,000 for Postwar Collegiate Research

Scientists who made the atomic bomb, radar, and a host of other vital war weapons will have a chance to return promptly to college laboratories for scientific research and teaching through \$2,500,000 in grants offered to educational institutions by Research Corp. of New York, a non-profit organization devoted to advancing research and technology by use of revenues from inventions assigned to it by public-spirited inventors.

Preference in making these grants will be given, other factors being equal, to smaller institutions and those of more limited financial resources for research.

The five-year program announced by Dr. Joseph W. Barker, acting president, who has returned to his duties with the corporation and with Columbia University from service as Special Assistant to the Secretary of the Navy, will result in 100 to 200 grants of \$2,500 to \$5,000 each year in order that talented young scientists, engaged for the most part in war research in uniform or as civilians, will be able to undertake at universities and colleges research of peace-time importance in pure science, especially chemistry, physics, mathematics, and engineering.

Grants Begin Soon

The first grants will be made in a few weeks by a special committee of eminent scientists from industrial and university laboratories. The committee is composed of Acting President Barker, who is also Dean of Engineering at Columbia University; Dr. Thomas H. Chilton, director engineering for duPont; Dr. William D. Coolidge, X-ray consultant for General Electric Co.; Timothy E. Shea, manufacturing engineer of Western Electric Co.; Dr. Lloyd P. Smith, associate research director of Radio Corp. of America; Col. Stafford L. Warren, rofessor of Medicine at the University of Rochester; and Dr. Robert R. Williams, inventor of the synthesis of vitamin B₁ and coordinator of esearch of Research Corp.

Grants will be made to the institutions at which the scientists will work and teach. The funds allotted will be available for the purchase of needed equipment and for employment of assistants either as Fellows or otherwise. Awards will be based primarily upon the demonstrated ability of the men who will conduct the researches and contribute to the teaching program of the school.

Scientists for Next Generation

"For the past four or five years," writes Dr. Barker, "the Government, through the Office of Scientific Research and Development, the National Defense Research Council, the Army, the Navy, and the Air Force, as supported a vast research and development program into which has been drawn the great majority of the nost competent university research

"Already the demobilization of hese research projects is under way. (Concluded on Page 7, Column 1)

Chicago Marts Appliance Setup To Set Record

CHICAGO — Attendance at Chicago's first peacetime national home furnishings show in four years, scheduled to open January 7 at the Merchandise Mart and the American Furniture Mart, is expected to exceed that of all previous shows, according to J. N. Stewart and Clark Kelsey, publicity managers for the respective

The lack of hotel accommodations will be the only major handicap, Mr. Stewart estimated. Those men who have registered for attendance have been asked to plan, wherever possible, to stay with friends or relatives, for most of the city's hotels have been booked solid since early November.

Household appliance exhibits will, in light of the anticipated huge crowds, be more extensive than ever before, reservations show. Before the war only the fifth floor at the Furniture Mart was taken up by appliances, Mr. Kelsey recalled. Both the fifth and seventeenth will be occupied this time, he said. All manufacturers of major appliances except Hotpoint will be represented there

Floors at the Merchandise Mart are assigned according to the industry represented, and there all major and minor appliances will be exhibited on the fourteenth floor, according to Mr. Stewart. Such manufacturers as Edison General Electric, Landers Frary & Clark, McGraw Electric, and Knapp-Monarch will be there.

Most merchandise will be allocated on an allotment basis, since reconversion in the home furnishings industry must continue to be slow for some months to come, he said. Thus the informative aspect will be stressed in the exhibits, with display ideas for dealers and suggestions for remodeling given major accent.

Honest Distribution Committee Formed

NEW YORK CITY — Paul Wolk, president of Blackford Brothers Co., of Rochester and Buffalo, distributor of radios and electrical appliances, has announced the formation of an "Honest Distribution Committee" pledged to "get rid of the plague of unfair distribution practices which could easily develop into a merchandising problem worse than the wartime black market."

The committee's long-range plan, as disclosed here by Mr. Wolk, will be to encourage distributors of all lines of merchandise to join in "fighting and eradicating 'backdoor selling' wholesale distribution methods which threaten to undermine the reputation of ethical distributors and dealers."

Listed among the trade evils which the group will combat were special discounts by "certain" dealers and distributors to "friends" and employes. The practices of special discount houses and what was termed a growing trend of certain factories "to indulge in unfair practices (Concluded on Back Page, Column 5)

WHY WE'RE LATE

Because of delays incurred in moving during the holiday season, this issue of AIR CONDITIONING & REFRIGERATION NEWS will be late in reaching subscribers.

With the new weekly schedule, it is believed that future issues will reach subscribers more

We Have Moved to 450 W. Fort St. Detroit 26, Mich.

Please change your records accordingly!

Because of the difficulties and confusion entailed in moving our offices and printing plant to our new location, this issue of the News has been limited to 16 pages.

With the first issue in January we shall resume the publication of regular, full-sized issues every week. Subscribers, we hope, will enjoy this expanded service. Twice as much for your money!

Westinghouse Backs Goad Heads GM Distributor Setup Dayton Divisions

MANSFIELD, Ohio—"Firmly convinced" that the manufacturer-distributor-dealer method of distributing goods is "fundamentally sound," Westinghouse Electric Corp. will stand back of that method of distribution, distributor executives and 450 wholesale salesmen were assured by J. H. Ashbaugh, Westinghouse vice president in charge of the appliance division, at sales meetings here recently.

Commenting on reconversion, Mr. Ashbaugh said, "If we can continue on schedule, we will be up to prewar refrigerator capacity in seven months after the end of the war, which is one month better than the time table we set up for this task.

"Electric irons, vacuum sweepers, fans, electric roasters, and a few other appliances were started more quickly, while ranges, laundry equipment, and some other small appliances have taken much longer."

A five-year warranty plan for the Westinghouse Laundromat automatic washer was discussed at the meetings by I. Frank Brownson, manager of the laundry equipment department.

This warranty guarantees replacement of the sealed-in, transmission, at no cost, within a period of five years after date of manufacture of the unit if the transmission becomes defective, declared Mr. Brownson.

Products shown at the meeting in their 1946 styling included refrigerators, home and farm freezers, electric ranges, water heaters, automatic washers and clothes dryers, irons, dishwashers, roasters, fans, vacuum cleaners, tank type cleaners, garbage disposers, and milk coolers.

Court Case to Test Fair Trade Act

SALEM, Ore.—A test case involving Oregon's 1935 fair trade act, authorizing resale minimum price contracts between manufacturers and dealers, was filed in Circuit Court here recently by the Borden Co. against Edward Schreder, Salem merchant.

The litigation will determine whether a manufacturer can restrain a dealer not under contract from selling its product at less than the contract charges.

Borden complains that Mr. Schreder has advertised and sold one of Borden's trade-marked items, at a price lower than that established by Borden under fair trade contracts. Although Borden has entered into numerous contracts with Oregon dealers fixing minimum resale prices, it does not claim any contract with Mr. Schreder. The court is asked to enjoin Mr. Schreder from continuing sales of the product below the price fixed in the contracts.

NEW YORK CITY—Appointment of L. C. Goad, vice president, as a group executive in charge of the General Motors divisions at Dayton—Frigidaire, Delco Products, Moraine Products, Aeroproducts, and Inland Mfg.; the Delco Appliance Division at Rochester, N. Y., and also the Buick-Oldsmobile-Pontiac Assembly Division with plants at Linden, N. J., and Southgate, Calif., and contemplated plants at Atlanta, Ga., Framingham, Mass., Kansas City, Mo., and Wilmington, Del., was announced last

The Dayton divisions have been under the direction of E. F. Johnson, who will relinquish his status as group executive of those divisions, but who will continue as vice president of General Motors and a member of the Administration Committee until the effective date of his retirement, Dec. 31, 1945.

week by C. E. Wilson, president of

General Motors.

Mr. Goad joined the Delco-Remy Co. at Anderson, Ind., in 1923. He transferred to the AC Spark Plug Division in 1933, becoming general manager in 1938. After several assignments in Detroit, he was appointed general manager of the Eastern Aircraft Division in 1942 and elected a vice president of General Motors in 1943. He is a member of the Administration Committee of General Motors.

Norge Elevates Clary, 4 Other Executives

DETROIT—Howard L. Clary's appointment as assistant general sales manager, and the promotion of four other Norge executives in a move "designed to strengthen its merchandising organization," have been announced by M. G. O'Harra, vice president and general sales manager of Norge Division, Borg-Warner Corp.

E. J. Kanker, E. R. Bridge, C. H. MacMahon, and Ellis Redden are the others involved in this personnel

Mr. Clary, who was recently made manager of sales promotion, will "coordinate all sales department operations" and will direct activities of the company's field force in his new position, explained Mr. O'Harra. Mr. Clary has been with Norge since 1927, with the exception of three war years when he served with the War Production Board in Washington, D. C.

Mr. Kanker, formerly assistant to Mr. O'Harra, is in the newly created post of director of market research, reporting directly to Howard E. Blood, Norge president.

Mr. Bridge, formerly domestic (Concluded on Page 13, Column 2)

Union Rejects G-E's Offer of 10% Pay Raise

NEW YORK CITY—General Electric Co.'s offer of a 10% wage increase, which President Charles E. Wilson said was not really warranted under present conditions, has been rejected by the United Electrical, Radio and Machine Workers of America (CIO).

The union has demanded a \$2 a day boost for its members employed by G-E, Westinghouse Electric Corp., and electrical divisions of General Motors Corp. Union members recently approved a strike authorization, if union officials consider it necessary.

G-E's offer of a wage increase will go into effect Jan. 1 for all non-union workers, and salaried employes receiving between \$3,000 and \$5,000 annually will be granted a \$300 boost at the same time, Mr. Wilson announced.

These increases and those offered the union would amount to approximately \$25,700,000 annually for some 124,000 G-E employes.

Proposed increase for the union is conditioned upon the union's agreeing not to impose limitations on, or obstacles to, increased production by its members, stated Mr. Wilson.

Acceptance of the offer by the union would compel the company to

WASHINGTON, D. C., Dec. 27— The General Electric Co. has agreed to meet Jan. 2 with Federal labor conciliators to discuss the threatened strike in electrical industry plants, Edgar L. Warren, chief labor conciliator, reported today.

The conciliators are expected to make a final effort to settle wage disputes which lead to the strike vote, before the CIO Electrical Workers Executive Board meets Jan. 5 to work out details for the strike, which might be called later in the month.

seek a general increase in price ceilings, said Mr. Wilson, adding that "we regret that through this decision we join the forces of inflation."

Besides terming the company's offer inflationary, Mr. Wilson declared that the \$2 demanded by the union was "economically unsound." Commenting on the strike threat, he stated:

"Serious as a strike would be to those who need home appliances, to the employes through the loss of compensation, and to the stockholders who own the company, the effect of such a cessation of production would be even more critical for thousands of both large and small manufacturers, whose production, in turn, is dependent upon this company's furnishing component parts, such as motors and controls, electronic de(Concluded on Page 13, Column 2)

Locker Plant Foods Okay After 20-Hour Shutdown

TULARE, Calif.—Although refrigeration machinery was out of service for 20 hours following a recent fire at the Food Bank grocery store and locker plant here, most of the food stored in the lockers was undamaged, reports Stanley Smith, owner.

The grocery store was destroyed by the fire which was started when an automobile knocked down a high voltage power pole. Heavy insulation and fire-resisting construction of the locker plant probably prevented damage to that section, believes Mr.

Construction of a new market will be started as soon as possible, according to Mr. Smith.

Are Manufacturers Holding Back Deliveries?



Charges that manufacturers were deliberately "holding back" shipments of new goods could be replied to by Philco Corp. with this photo showing one of the five transport planes the company chartered to rush its first production radio sets to Philco distributors in 41 major cities in time to reach the Christmas trade.



1. SAVES SPACE.

frigerator.

Installed in mid-ceiling -- occupies a

uniform temperature throughout the re-

2. EFFECTIVE AIR DISTRIBUTION. Even discharge in all directions assures

minimum of overhead space.

3. CORRECTLY ENGINEERED.

4. TOPS IN CONSTRUCTION.

Ball-bearing motor, totally enclosed.

Bottom pan easily removable for free

Specially designed Venetian discharge

KRAMER TRENTON CO.

Trenton, New Jersey

Low discharge velocity.

High relative humidity.

REQUIRES NO OILING.

Built-in Heat Exchanger.

access to all parts.

Two-tone crackle finish.

All copper coil.

Silent fan.

5. ATTRACTIVE.

KRAMER Radial UNIT COOLER

\$25,000,000 Appliance Program Launched By Cooperatives Includes Complete Lines

CHICAGO-First household refrigerator manufactured to its own specifications is one of several products scheduled for early appearance in a \$25,000,000 postwar appliance program now being carried out by National Cooperatives, Inc.

This program is being publicized by what is considered one of the most extensive national sales, merchandising, and training plans to promote cooperatively-distributed ap-

Also on National Cooperatives' purchasing, merchandising, and manufacturing calendar are farm and home freezers, washers, gas and electric ranges, electric water heaters, vacuum cleaners, pressure cookers, radios, irons, and food mixers.

Only one refrigerator model, of 9-cu. ft. capacity, will be manufactured at present, according to Edward L. Williams, service manager. The box was designed by Barnes & Renikee, of Chicago, for the federation, which has supplied its own dies.

To be marketed under the trade name, "Co-op," as are all the appliances, the refrigerator has a 1/6-hp. Tecumseh condensing unit and a Bohn Aluminum & Brass evaporator.

National Cooperatives has contracted for 20,000 units, with an option for 10,000 more, Mr. Williams said. First of the units are expected to come off the production line about Dec. 15, according to Mr. Williams, who said the price has not yet been

SEND FOR

CATALOG R-142 N

Two models of 20,000 farm and

home freezers, also made to the coop's specifications, will begin to flow to consumers around the first of the year, Mr. Williams stated. A singlecompartment type is being produced in 4, 6, 8, and 16-cu. ft. capacities and a two-compartment unit in 6, 12, and 20-cu. ft. capacities.

Between now and next July, 5,000 washing machines of a current model will be manufactured for the organization, and during the following year addition of another model will push total volume to about 15,000, Mr. Williams said. He said approximately 18,000 vacuum cleaners of both tank and floor types had been ordered, with some samples already being shipped.

Plans have been made for production of 7,000 electric water heaters in National Cooperatives' own plant in Albert Lea, Minn., it was stated. Plastic radios in two models are being made under a 30,000-unit contract, and pressure cookers are now being delivered in 21-qt. sizes, with the 4-qt. type to follow about Jan. 15, according to the spokesman.

The gas and electric range and iron programs are not yet completed, Mr. Williams said.

National Cooperatives' advertising section is utilizing sales and service manuals, consumer appliance pamphlets, parts folders, and other promotional material in backing the program.

Another phase of the campaign is a service training program, which includes distribution of two text books, a trouble-shooter's guide, and motion pictures. This material will be used by regional groups in their training schools.

National Cooperatives is a federation of 20 regional wholesale cooperative associations in the U.S. and Canada serving more than 5,000 local cooperatives. These local coops are said to represent about 1,500,000 consumer members.

The national unit serves as the purchasing, merchandising, and manufacturing agency for its members. At present, it markets about 8,000 types of products.

Purchases by regional co-ops totaled \$152,523,298 in 1944, according to National Cooperatives.

In collaboration with National's staff, a four-man technical committee, selected from member wholesale associations, controls the quality of appliances manufactured and contracted for under the "Co-op" label. This committee is comprised of Grant Grebel, Ted Wesanan, Kenneth Hagans, and Vaughn Kegg.

The co-op's appliance program is directed by Otto Murkkala, coordinator of purchasing; John Blackburn, sales manager; and Mr. Williams.

'Co-op' Refrigerator



This 9-cu. ft. refrigerator is being manufactured for National Cooperatives according to its own designs and will be sold through "co-ops."

Prices Set on Copeland Commercial Boxes

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SIDNEY, Ohio — Consumers will pay ceiling prices of \$440 and \$490 for a 16.5-cu. ft. reach-in commercial refrigerator manufactured by Copeland Refrigeration Corp. here. according to the provisions of Order 157, MPR 591.

The lower price is for the plaincoil type of unit, while the higherpriced refrigerator is equipped with the ice-cube coil. This model, No. 160, has a 1/4-hp. condensing unit.

Maximum prices on the plain-coil refrigerator are: to distributors, \$220; to dealers, \$264; and to consumers, \$440. Distributors will pay \$245 for the other variety; dealers, \$298; and consumers, \$490.



cooled drinking water . . . 24 hours a day year in year out! Made by EBCO . . . pioneers in electric

EBCO Mfg. Co.

THERMAL EXPANSION VALVE

Thoroughly tested in field use, the V-200 is proving its day-in day-out reliability for an increasing number of users. They endorse its many outstanding features,



Easily-removed orifice cartridges eliminate need for stocking several sizes for low tonnage

Interchangeable orifice cartridges assure proper sizing of capacity to load.

▶ Ample diaphragm plus balanced, low-rate ad-

Carefully-lapped hard-faced ball insures tight shut-off.

Semi-liquid charged; may be placed in ambient temperatures higher or lower than bulb temperatures with no loss of control.

For complete specifications on the V-200 and other refrigerant controls in the broad GENERAL CON

Cartridge Number	CAPACI	TY IN B.T.U. METHYL CH.	
4400.1	750	1700	1710
4400.2	1500	3400	3420
4400.3	3000	6800	6840
4400.4	6000	13600	13700
4400.5	9000	20400	20500
V-200 WITH NO CARTRIDGE	12000	27200	27400

FOR CONTROLLING ...

FREON METHYL CHLORIDE SULPHUR DIOXIDE



FACTORY BRANCHES: Philadelphia, Atlanta, Boston, Chicago, Dallas, Kansas City, New York, Del Detroit, Cleveland, Pittsburgh, Houston, Seattle, San Francisco. Distributors in Principal Cities.

installations. justing spring. Frictionless pusher pin. Unmatched sensitivity.

TROLS' line, write for your copy of Catalog 52.

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Chicago Seals are best for Coldspot.

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F. A. HAAG

Haag Appointed Salem Sales Manager

SALEM, Ohio - F. A. Haag, formerly sales manager of Kold-Hold Mfg. Co., of Lansing, Mich., has been appointed sales manager of the refrigeration division of Salem Engineering Co. here.

Following his graduation as a mechanical engineer from the University of Michigan in 1931, Mr. Haag joined Fedders Mfg. Co., spending two years in engineering and eight years in sales. Part of the time he managed Fedders' New York City office.

Since 1940 Mr. Haag has been with Kold-Hold-two years as salesman and three years as sales

Soreng

- WIRING HARNESS • SWITCHES
- RECEPTACLES

ARE ENGINEERED TO MEET YOUR PRODUCTION REQUIREMENTS

SORENG MANUFACTURING CORPORATION 1907 Clybourn Ave.-Chicago 14, Ill.

ROME-CONDENSER Jointless Type *



Rome Water Cooled Condenser Coils insure trouble-free condensng equipment. Used by leadng compressor manufacturers.

ROME-TURNEY RADIATOR COMPANY 222 CANAL ST. ROME, N. Y.

4 Executives Elected Vice Presidents of Minneapolis-Honeywell

MINNEAPOLIS-Appointments of four vice presidents, two executive vice presidents, and personnel changes in sales and production divisions have been announced by Harold W. Sweatt, president of Minneapolis-Honeywell Regulator Co.

Paul B. Wishart has been elected vice president in charge of factory operations in Minneapolis; Arthur H. Lockrae, vice president in charge of the heating controls department; John E. Haines, vice president in charge of the commercial controls department; and C. D. Lyford, vice president in charge of sales to the gas industry.

C. B. Sweatt and W. L. Huff have been elected executive vice presidents with authority to act in executive capacity in any of the company's divisions or activities. This move recognizes a policy that has been in general practice, explained President Sweatt. Mr. Huff also continues as treasurer.

James H. Binger has been elected assistant secretary to take over the duties of W. F. Marquart, who is retiring to return to private law practice.

Thomas McDonald, who has been vice president in charge of the company's aeronautical controls plant in Chicago, was elected vice president in charge of sales, assuming responsibilities for activities formerly directed by C. B. Sweatt.

Alfred M. Wison, also a vice president, will be responsible for all company activities in aeronautical controls and will coordinate manufacturing and sales operations of this division with other company divisions.

Three of the four new vice presidents have been with Minneapolis-Honeywell for at least 16 years. Mr. Wishart joined the company in 1942 as assistant superintendent in charge of production and was later made factory manager in charge of all production in the Minneapolis plants.

Mr. Lockrae came to M-H from the Honeywell Heating Specialties Co. when the latter merged with the Minneapolis Heat Regulator Co. in 1927. Starting as a salesman, he was advanced to supervision of sales to the oil burner industry and last year was made manager of the heating controls department.

Mr. Haines joined the company's sales department in 1929, and was successively manager of branch operations in New York City, manager of the national regulator division in Chicago, manager of the air conditioning controls division, and in 1944, manager of the commercial controls department which previously had absorbed supervision of activities in the air conditioning field.

Starting with the company in the service department in 1919, Mr. Lyford was later promoted to the sales department and served in various sales divisions until 1925, when he was placed in charge of sales to the gas industry.

R. D. Gray to Represent Koch In Southeast

NORTH KANSAS CITY, Mo. -Ronald D. Gray, formerly commercial refrigeration supervisor of Westinghouse Electric Supply Co., at Jack-sonville, Fla., has been appointed southeastern sales representative for Koch refrigerators, reports R. H. Starr, vice president.
Through distributors and dealers,

Mr. Gray will supervise Koch sales in North and South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Tennessee. His head-quarters will be at Jacksonville Beach, Fla. Mr. Gray resigned from Westinghouse on Dec. 15.

CHICAGO SHAFT SEALS

Acknowledged as the industry's most effective seal for replacement (even on scored or bent shafts) because it has the self-adjusting sleevelock. Quickly installed. For REAL SATISFACTION never accept a substitute. At all jobbers.

CHICAGO SEAL CO. 30 NORTH WACKER DRIVE, CHICAGO 6, ILL.

Become Vice Presidents of Controls Company



ARTHUR H. LOCKRAE PAUL B. WISHART

C. D. LYFORD

JOHN E. HAINES



RECOLD"



MASTER-Food Conservators

have the call. This Modern Food Conserver has many unusual advantages. Sold through distributors of refrigeration and insulation.

Get our proposition

Master Manufacturing Corp. 121 Main St. Sioux City 4, Iow **OVER 800,000 IN USE**

OPA Sets Ceilings on Past and Present Officers of A.S.R.E. Honored at Meeting

SOUTH BEND, Ind.—Retail ceiling prices were recently approved by OPA for two Bendix models.

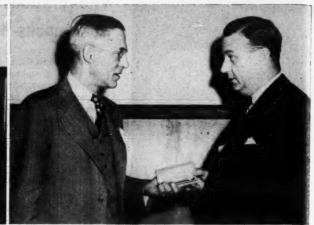
2 Bendix Washers

Maximum prices for sales by dealers in each zone were established as follows by Order 23, MPR 86: Standard Automatic-\$159.50, \$162.50, \$169.50; Deluxe Automatic-\$179.50, \$182.50, \$189.50.

The order provides that distributors will determine their ceiling prices to dealers in accordance with provisions of section 15, MPR 86.

Dealers are authorized to add \$10 to these prices for installation. The order defines installation as including setting up the machine; bolting it to the floor or, at the option of the purchaser, otherwise securing it; making the water connections; and providing two 1/2-inch shutoff valves, up to 8 feet of pipe for water lines, up to 5 feet of drain hose, and up to 5 feet of wire for connection to electric facilities.





National officers of the American Society of Refrigerating Engineers, elected at the recent annual convention in New York. Left to right: Clifford F. Holske, Vilter Mfg. Co., New York City, vice president; Prof. Burgess H. Jennings, Northwestern Technological Institute, Evanston, Ill., treasurer; Roland H. Money, Reynolds Metals Co., vice president; Charles S. Leopold, consulting engineer, Philadelphia, president. (At right) Charles R. Logan, Electric Power & Equipment Co., a former A.S.R.E. president, presents a testimonial gift to John F. Stone, Johns-Manville Corp., retiring president.

REFRIGERATION PRODUCTS

Humi-Temp Forced Convection Units— Patented CROSS-FIN-COILS—Zinc Fused Steel Plate Coils—Disseminator

See Your Jobber or Write Direct

Pans—Heat Ex-changers—Evapora-tive Condensers— Instantaneous Water Coolers— Bare Tube Coils

LARKIN COILS, 519 Memorial Drive., S.E., Atlanta, Ga.

Public Relations

DETROIT-Appointment of Fred L. Black as director of public relations of Nash-Kelvinator Corp. was announced recently.

Mr. Black, who joined Nash-Kelvinator in 1943, has been actively associated with Vice President A. M. Wibel in government contract work. For 23 years, Mr. Black was with the Ford Motor Co. as public relations and advertising executive, and was director of advertising.

Black Heads Kelvinator Carrier Introduces 15 Ft. & 30 Ft. Upright Farm Freezers After Survey of 200,000 Families

SYRACUSE, N. Y .- Plans for production early in 1946 of two new upright farm freezers have been announced by Carrier Corp.

Manufacture will start in February and first models will consist of a freezer with a capacity of 30 cu. ft. and another of 15 cu. ft. Both are of upright design, with front-opening doors, a departure from the conventional chest-type. This advance provides convenient access to the freezing and storage shelves, and reduces the floor space occupied to a minimum in relation to cubic foot capacity. Production will level off at 3,000 units a month, and distribution will be through leading farm cooperatives and regular Carrier distribution channels.

In order to fit the new freezers exactly to farm needs, 200,000 farm families were interviewed during a four-year period of research and field testing conducted jointly by farm cooperatives and Carrier Corp. Many suggestions made by farmers have been incorporated in the design of the new freezers.

The larger of the two models, of 30-cu. ft. capacity, will provide storage space for 1,000 to 1,200 pounds of frozen foods, while the smaller has a capacity of 500 to 600 pounds.

Freezing capacity of each unit is from 50 to 75 pounds of food per

The 30-cu. ft. model contains a 1/3-hp. hermetically sealed compressor, while the 15-cu. ft. design utilizes a ¼-hp. hermetically sealed compressor. The shelves of both freezers serve as cooling plates, an arrangement which affords even temperature distribution throughout, and also provides direct-contact freezing on three of the four shelves in the

In addition to upright design, front opening doors, and conservation of floor space, other features of the freezers, as enumerated by Carrier engineers, include:

1. Ease of service. For example, the entire cooling system, including plate shelves, may be quickly removed as a unit in case of necessity. 2. Economy of operation.

3. All-steel welded exterior with moisture-proof seal on all outside

4. Interior and exterior finish of baked white enamel. 5. Heavy-duty door handles equip-

ped with lock device. 6. Built-in signal light to show

proper operation.

The new Carrier units, which have been designed to maintain a 0 to -5° F. temperature in a 110 F.° room, will be produced in the Carrier Syracuse plant, where an entire floor will be devoted to completely new self-contained manufacturing and

Westinghouse Laundry Post Assigned to Dunson

MANSFIELD, Ohio - Robert C. Dunson has been appointed product supervisor for the laundry equipment department of Westinghouse Electric Appliance Division, announces I

Mr. Dunson, who has been with Westinghouse since 1932, will coordinate the plans of the sales department with the production departments on the Laundromat automatic washer and the company's automatic clothes dryer, as well as electric ironers and conventional washers.

Frank Brownson, manager.

Upright construction and front-opening doors feature this new 30-cu. ft. capacity farm freezer which Carrier Corp. will begin producing early in 1946. Production will · be geared to 3,000 units per month, Carrier officials report.

on moisture

boxes.





... to meet your air-conditioning needs next summer!

• ORDER AT ONCE to insure delivery of usAIRco Refrigerated Kooler-Aire when you want it. Increased demands for air conditioning equipment are being met by rapidly-expanded production.

usAIRco Refrigerated Kooler-Aire — the most economical, efficient and flexible unit for commercial and industrial air conditioning—is simple to install, low in cost to operate. All wiring and piping is complete in the packaged

unit, ready to connect to water, air duct and electrical system. The compact, space-saving features of the Refrigerated Kooler-Aire give you more for your air conditioning dollar.

Made in eight sizes to meet load and design requirements of any air conditioning job, using single or multiple units, usAIRco Refrigerated

> Kooler-Aire leads the air conditioning field! Write today for further information.

UNITED STATES AIR CONDITIONING CORPORATION

2101 Kennedy Street Northeast



Northwestern Terminal, Minneapolis, Minn.

Manufacturers of the most complete line of air-handling equipment . Factory representatives in principal cities

IMPERIAL TORPEDO DEHYDRATOR in the war

One piece streamlined shell-fewer joints-no soft solder —less chance of leakage. Copper and brass construction Packed with "Silica Gel". Built in sizes up to 7 h.p. IMPERIAL BRASS MFG. CO., 565 S. RACINE AVE., CHICAGO 7. ILL

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Wholesale and Retail Prices Established For 10 Hotpoint, G-E Water Heater Models

CHICAGO-OPA's schedule of retail ceilings for 10 models of electric water heaters manufactured by Edison General Electric Appliance Co., Inc., and distributed by both Edison G-E and General Electric Co. shows prices varying from \$56.42 to

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The maximum net delivered prices for sales to consumers were established as follows by Order 148, MPR 591:

Edison G-E	General Electric	Stand- ard watt- age	Stand- ard watt- age
201WG144	G-101A-10 gal.	\$ 56.50	\$ 56.42
101WG336	G-309A-30 gal.	82.27	82.16
561WG340	G-301B-30 gal.	65.37	65.28
502WG342	G-302A-30 gal.	84.42	84.30
501WG442	G-401A-40 gal.	86.35	86.22
502WG442	G-402A-40 gal.	91.35	91.22
501WG542	G-521A-52 gal.	93.27	93.14
502WG542	G-522A-52 gal.	98.27	98.13
501WG842	G-861A-86 gal.	125.25	125.07
502WG842	G-862A-86 gal.	132.40	132,21

Below are the ceilings for sales to "servicing" dealers.

These prices are f.o.b. point of shipment, the order states, but if shipment is made directly by either company to a dealer, the prices are f.o.b. the dealer's place of business.

Maximum prices to distributors when the heaters are supplied with standard wattage in carload quantities are:

Edison G-E	General Electric	Pric
201WG144	G-101A	\$28.9
101WG336	G-309A	42.4
561WG340	G-301B	34.0
502WG342	G-302A	43.6
501WG442	G-401A	44.7
502WG442	G-402A	47.3
501WG542	G-521A	48.3
502WG542	G-522A	50.9
501WG842	G-861A	65.1
502WG842	G-862A	68.6

If supplied with non-standard wattage, the heaters may not exceed the following ceilings on sales in carload quantities to distributors (model numbers are G-E): G-101A, G-309A, \$43.55; G-302A, \$44.80; \$29.71; G-301B, \$34.94; G-401A, \$45.95; G-402A, \$48.55; G-521A, \$49.64; G-522A, \$52.25; G-861A, \$66.80; G-862A, \$70.44.

Addition of 3% to the distributor prices listed above is prescribed by the order to determine maximum prices for sales in less than carload quantities

Revised MPR 251 governs the ceilings for sales of the heaters on an installed basis.

		*	On ship	ments of-				
Edison G-E	General Electric	1 to 4 heaters, standard wattage	5 or more heaters, standard wattage	1 to 4 heaters, non- standard wattage	5 or more heaters, non- standard wattage			
201WG144	G-101A	\$37.64	\$33.88	\$37.56	\$33.80			
101WG336	G-309A	54.85	49.37	54.74	49.26			
561WG340	G-301B	43.63	39.26	43.54	39.17			
502WG342	G-302A	56.33	50.70	56.21	50.58			
501WG442	G-401A	57.60	51.84	57.47	51.71			
502WG442	G-402A	60.96	54.86	60.83	54.73			
501WG542	G-521A	62.19	55.97	62.06	55.84			
502WG542	G-522A	65.53	58.98	65.39	58.84			
501WG842	G-861A	83.55	75.19	83.37	75.01			
502WG842	G-862A	88.24	79.42	88.05	79.23			

Hurley Gets Prices on 6 Washers, Ironers

CHICAGO—Ceiling prices for six models of washing and ironing machines manufactured by Hurley Machine Division of Electric Household Utilities Corp. have been revised.

Dealers' maximum prices to consumers for three models of washing machines are as follows, in order of Zones 1, 2, and 3: 42-8, \$69.95, \$74.95, \$76.95; 42-8 ER, \$79.95, \$84.95, 42-9 ER, \$89.95, \$94.95, \$86.95; \$96.95.

Of the ironing machines, Model 88 retails at \$34.95 and Model 89 at \$44.95, in all zones.

Section one of Revised Order 6 authorizes the Hurley Division to adjust its ceiling prices established under section three of MPR 86 by the amount provided in section five for all washing and ironing machines sold and delivered by it on and after Oct. 4, 1945.

Distributors' ceiling prices follow:

Section two also orders that a distributor who sells any ironing machines for which the manufacturer's ceiling prices are established by section one shall determine his ceiling prices for such articles in accordance with Section 15 of MPR 86.

Order 11, MPR 86, has been revised and amended to fix a top retail price of \$42.95 for the Gladiron ironer, Model 89C. For sales by distributors to dealers, the ceilings are \$29.32 in quantities of one to three, and \$27.06 for four or more.

Maximum retail prices for the Automagic Gladiron automatic ironer Model 300 were set at \$59.95 (Zone 1), \$61.95 (Zone 2), and \$62.95 (Zone 3) by Order 25.

Following is the schedule for sales of Model 300 by distributors to dealers, by zones: In quantities of one to three, \$40.88, \$42.25, \$42.92; for four or more, \$37.73, \$38.99, \$39.62.

Washing machines, Model	Zone 1 When sold in quantities of—		Zone 2 When sold in quantities of—			Zone 3 When sold in quantities of—			
	10 or more	2 to 9	1	10 or more	2 to 9	1	10 or more	2 to 9	1
42-8 42-8ER 42-9	\$43.00 49.15 55.30	\$44.03 50.33 56.63	\$45.50 52.01 58.52	\$46.08 52.23 58.38	\$47.18 53.48 59.78	\$48.74 55.25 61.76	\$47.30 53.45 59.60	\$48.44 54.74 61.04	\$50.06 56.57 63.08



OPA Alters Washer, Ironer Price Rules

WASHINGTON, D. C. - Three minor changes have been made in the regulation governing reconversion prices of household washing and ironing machines, OPA reports. The action will have no effect on consumer prices, the agency said.

The \$10 addition allowed in the regulation for machines equipped with a water pump is intended to apply only to the wringer type machines, which may be sold with or without the pump, OPA said. As the regulation originally read, the addition could have been made also by manufacturers of spinner and automatic type washers, which in all cases are equipped with water pumps and the prices of which already reflect the cost of pump equipment.

Manufacturers may apply for approval of individual price zones different from those set up in the regulation, when it appears that no increase in the general level of consumer prices will result, OPA said.

The regulation sets up an eastern, midwestern, and western zone, with price differentials to reflect cost of shipping from one zone to another. They do not correspond exactly with those used in the prewar period by all manufacturers, and where an individual change would simplify the distribution problem of any manufacturer, he may apply for the alteration, OPA said.

North Dakota and Alabama, omitted from the list of states in zones 1 and 2 respectively, are included in the amendment, and the table for the establishment of retail ceiling prices has been corrected.

Ceiling Prices for 3 Kelvinator Range Models Announced

DETROIT - Approval of ceiling prices for three models of electric ranges manufactured by Nash-Kelvinator Corp. was recently granted by OPA.

Maximum retail prices for the three models, ER-423C, ER-427, and ER-429, are respectively \$176.95, \$194.95, and \$216.95. These prices include the Federal excise tax but not state or local taxes.

Also included in the prices, according to Order 203, MPR 64, are delivery, a one-year warranty, and installation when connection to electic facilities is the only requirement. The order permits addition of \$3.50 if a "pigtail" is required and furnished.

For sales by wholesale distributors to retail dealers, the maximum prices including the Federal excise tax are as follows: ER-423C, \$117.31; ER-427, \$129.26; ER-429, \$143.86.





Atlanta Tampa

Jacksonville Charlotte

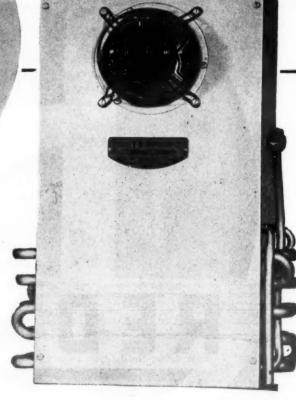
,The South's Largest" Refrigeration Supply Jobber





They're New and Different-

With These Important Features:



- 1. Extremely compact—built especially for back bars
- 2. Centrifugal blower circulation
- 3. Quickly and easily installed
- 4. Even temperature throughout entire fixture
- 5. Two units—for all size back bars
- 6. Exclusive Betz coil construction

Let us send you complete information about our post-war line of cooling units.

For Information. BETZ CORPORATION Call or Write-HAMMOND, INDIANA

Wholesale District



H. D. GRAVES

DETROIT-H. D. Graves, formerly with Temprite Products Corp. as midwest regional manager, has been appointed wholesale district representative at the Brunswick-Balke-Collender Co. for distribution of Blue-Flash refrigeration products. He will headquarter in Chicago, it was announced.

Davis Joins Macys

NEW YORK CITY—Announcement has been made of the appointment of David Davis as buyer of radios and phonographs for all stores of R. H. Macy & Co., Inc.

Graves Heads Brunswick Peterson Named Adv. Head Scheidel Heads Sunroc For Pressed Steel Line

CHICAGO - Curtis L. Peterson has been appointed supervisor of advertising to handle the program of the Domestic Appliance Division of The Pressed Steel Car Co., A. Raysson, general sales manager of the company, has announced.

The Chicago sales office of the Domestic Appliance Division of the company is now at 666 Lake Shore Drive, Chicago. The manufacturing plant is at Hegewisch, near Chicago.

"Mr. Peterson comes to Pressed Steel Car Co. after a year's service with the Regional Office of Price Administration where he headed the Public Relations activity of that agency," Mr. Raysson said.

Mr. Peterson served with the Twenty First Regiment during the war and for several years before his army service was director of advertising for Ekco Products in Chicago. He is a graduate of Northwestern University.

Eisenberg To Manage **Appliance Wholesale**

NEWARK, N. J.-Appointment of Albert A. Eisenberg to the posts of general sales manager and general manager of Appliance Wholesalers, was recently announced.

Mr. Eisenberg formerly operated the Surrey hotel in Miami Beach, but will now devote his full time to the appliance business, it was announced.

The firm, Appliance Wholesalers, has offices at 279 Halsey St. and serves approximately 700 retail outlets.

Office In New York



FRANK X. SCHEIDEL

NEW YORK CITY-Sunroc Refrigeration Co. announces the appointment of Frank X. Scheidel as head of its New York office.

Mr. Scheidel has been engaged in the sales, service, and merchandising of refrigeration equipment since

Since 1936, he has been merchandising water coolers. In 1934, he became associated with the development of a convertible unit, and in 1937 he took charge of its promotion in the New York area. He has leased and sold water coolers and filtering equipment.

Note to Veterans:

Be Sure You Have Experience and Capital If You Plan to Start Your Own Business

NEW YORK CITY-Memo to the 1,000,000 World War II veterans who contemplate setting themselves up in small businesses.

From Benjamin H. Namm, president of the National Retail Dry Goods Association:

There are plenty of opportunities in the field, and you will be eagerly welcomed and generously assisted. BUT, before plunging into your own small business, pause to consider seriously whether or not you have sufficient experience and capitalprincipal causes of the majority of business failures."

This, in effect, is the qualified encouragement proffered veterans by Mr. Namm, who recently returned from a seven-week trip to England, France, and Germany. Sounding out soldiers on their postwar plans for entering the small business field, he found that a disturbingly large number of them who want to go into retailing have given little or no thought to their qualifications.

THERE IS A DEMAND

That a demand exists for small stores is evident, Mr. Namm said, from the decline in the total number of U.S. business enterprises during the war years—a drop largely confined to small business. Quoting Better Business Bureaus' figures, he said the 3,400,000 enterprises in operation at the outbreak of war faded to 2,900,000 in 1943 "and it is reasonable to assume that the decline has continued during 1944 and 1945.

"The greatest decline was among household appliance stores, gasoline stations, radio stores, and meat markets," Mr. Namm declared. "These figures are striking in view of the fact that, if it had not been for the war, there would probably have been a sizable increase in the number of business enterprises."

However, Mr. Namm cautioned, "The soldier who enters small business-unarmed with adequate experience or sufficient capital, or lacking in what we in retailing call a 'sense of sell'-will in all likelihood be doing a disservice to himself, his family, and his community.
"The history of the last war is

replete with the records of veterans who rushed into small business and then spent many long and arduous years paying off the debts they had

CAUSE OF FAILURES

Mr. Namm cited commercial agencies which investigate causes of business failures as authority for the statement that the majority of failures are due to lack of experience and capital.

"It was disturbing to me," he confessed, "to talk with many of our G.I.'s abroad who do not seem to have given sufficient thought to these two problems."

For the one soldier out of every nine who intends to go into business for himself, according to an Army study, Mr. Namm recommended the advice of Lew Hahn, general manager of the Dry Goods association. He quoted from Mr. Hahn's booklet.

"How to Start a Small Store":

"If you are to become a successful retailer, go forward with a stout heart, determined to learn the business and to make good. When you don't know the answer to any particular problem, then ask somebody who does know. You will then learn just as fast as your actual respect knowledge and experience dictates."

For business organizations, Mr. Namm recommended these words of Ralph Bradford, general manager of the U. S. Chamber of Commerce, in his pamphlet, "Keeping Faith With the Veteran":

"The need is for a coordinated and genuinely useful program of public service to veterans. It should not be half done in many places but well done in one place in every community. In all community planning, the re-employment and business opportunities for veterans should receive first consideration."

Mr. Namm called attention to a "splendid" booklet prepared by the Better Business Bureaus under the title, "Facts Veterans Should Know Before Starting a Small Business." He said the Bureaus are giving valuable, direct advice to G.I.'s throughout the country.

He expressed gratification at discovering, during his tour of Europe, that the Army command "was so ready and eager to offer its full cooperation in the effort that business in general, and retail distribution in particular, is making to help provide jobs and business opportunities for our veterans."



Send For Bulletins

Sole Agents

MU-185, MU-30B, and MU-7B on Wagner ELECTRIC MOTORS

Wagner Electric Corporation 6471 Plymouth Avenue, St. Louis 14, Mo., U. S. A. ELECTRICAL AND AUTOMOTIVE PRODUCT



MORE THAN 15,000,000 MICROMOTORS

In twenty years the Redmond Company has become an outstanding leader in the manufacturing of small fractional horsepower motors.

edmond company, Inc., owosso, michigan, U. S. A.

A. C. Micromotors in sizes up to 1/25th horsepower, D. C. Micro-

motors up to 1/20th horsepower, Speed Controllers, and Blowers.



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Grants Made from

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Patent Revenues

Research Corp. was begun in 1912 with the gift, through Dr. F. G.

Cottrell, of patent rights on electrical

precipitation, which is used for re-

moving dust, fume, and mists from

industrial gases and from the atmos-

phere. From revenues derived from

these and other patents it has made

grants of \$1,279,637 in past years to

In recent years Research Corp. has

served universities by administering

inventions that may arise in their

Scientific Research and Development,

Army, Navy, and other war research

agencies, the possibilities of these

grants are being made known with

an invitation to send applications to

Dr. Robert R. Williams, Research

Corp., 405 Lexington Ave., New

To scientists of the Office of

(Concluded from Page 1, Column 1)-When their war jobs are finished many of these talented young scientists should be going back to college laboratories and lecture rooms to train and inspire the next generation of science.

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"War conditions have greatly disturbed our educational institutions by diversion of talented members of their faculties into war research, by drawing off faculty and students into military service, by utilizing educa-tional facilities for military service training programs and by interrupting sources of financial support.

"Research budgets have been drastically curtailed, especially in the smaller institutions, which in many cases have not had opportunity to undertake Government research on a substantial scale. The financial strength of many institutions also has been impaired by the depression and the war conditions which followed. Now new burdens are thrust 4 upon them as young men from the services return to resume their interrupted training.

Return to Peace-Time Footing

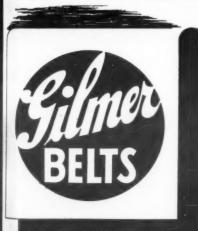
"Research Corp.'s program of special postwar grants will round out the plans that are being made for the most effective and most prompt return of the war-engaged scientists to peace-time fundamental and applied research," Dr. Barker explains.

"The Rockefeller Foundation has already announced a comprehensive plan of pre-doctoral fellowships which will return to college former graduate students who left their studies and researches for war research.

"Current government legislation and proposed bills being considered by Congress will aid the return to college of students whose scientific and technological education was in-terrupted by the war.

"Research Corp. grants will assist colleges in building research-minded staffs which will help train the students returning to colleges from the war, as well as the future contingents of students from our secondary schools in future years."

The grants are made possible by the fact that during the war years research programs that would be normally supported by Research Corp. grants have been laid aside in order to free men and facilities for war research.



When customers ask for replacement belts, be ready to supply them with rugged, longlived, efficient Gilmer V-Belts - the low stretch belts that always fit-the dependable belts that build goodwill.

There are Gilmer V-Belts for all air-conditioning and refrigeration units. That's because they are made on the largest assortment of V-moulds in the world. Get in touch with your

L. H. GILMER COMPANY Tacony, Philadelphia 35, Pa. Division of United States Rubber Company

Westinghouse Appoints Brown Field Supervisor

SAN FRANCISCO-R. E. Brown, for the last three years a field su-pervisor for Moore Dry Dock Co. in Oakland, Calif., has been appointed Pacific Coast supervisor of domestic refrigerators and home freezers for the electrical appliance division of Westinghouse Electric Corp.

Mr. Brown's appointment was announced by J. J. Moffatt, Pacific Coast manager of the division. The new supervisor has been assigned to the promotion and sales of the appliances, through Westinghouse dealers, in the entire coastal area.

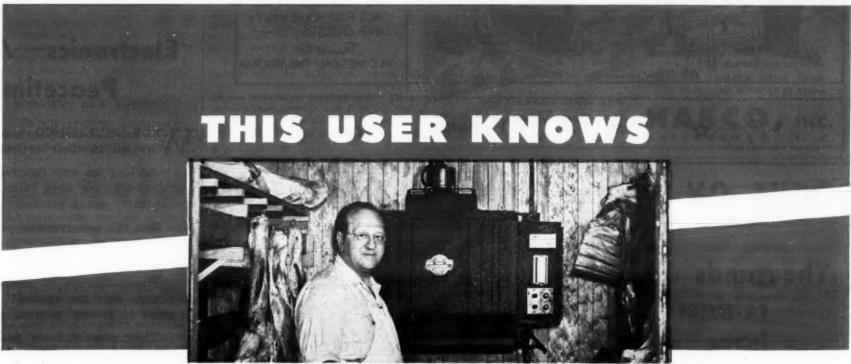
Prior to his association with the dry dock company, Mr. Brown was a Frigidaire sales manager in the Portland (Ore.) district for five years and a General Electric sales engineer in the Spokane area for two years.

Born in Scipio, Utah, Mr. Brown is a graduate of a Salt Lake City high school and, in 1930, of the University of Utah. He then joined the advertising sales department of the Salt Lake Tribune.

Norge Makes a Gift of First Range Off Lines



Top award at the annual Fun-Fest of the Women's Advertising Club of Detroit was the first Norge range to be produced in the company's new plant in Effingham, Ill. Shown here are the winner, Mrs. Richard A. Bird; M. G. O'Harra, Norge vice president and general sales manager (left); and Harry J. Holbrook, electric range sales manager.



Max Weisberg of Jo-Mac Super Market, St. Louis, Missouri, says - I have used an AMCOIL FOOD CONDITIONER in my cooler for some time and know it helps to retain the natural freshness and bloom of the meats. I have never had any losses through trimming of meats, thanks to AMCOIL'S definite control of humidity which practically eliminates dehydration and shrinkage.

UTILITY DOWN-DRAFT UNITS

Specially designed to meet the demands for a compact, efficient, wall-mounted unit.

				- F.		
Model	BTU/HR 15° MTD	List Price			FI.	
UD- 7 UD- 17 UD- 27	1,350 2,250 3,000	\$ 89.00 99.00 109.00				
UD- 37 UD- 47 UD- 57 UD- 77	4,200 5,600 7,800	149.00 149.00 169.00	1839			
UD-127 UD-167	11,000 15,000 23,000	209.00 319.00 369.00				
xpansio	AT EXCHA on Valve not inclu	s and				1

Streamlined, wall-mounted,

down-draft unit for back-bar or

under-counter coolers, reach-in

and walk-in boxes. A space-

saver supreme! Field-tested, and

consumer-acceptance proved!

AMCOIL NOW FEATURES

The new moderately priced utility cooling units, namely:-The UDF Food Conditioners for preservation of fresh and perishable foods where the

control of high humidity is a factor, and the regular UD models for the storage of package commodities.

JOBBERS-DEALERS investigate these latest AMCOIL profit makers

UTILITY FOOD CONDITIONER

A low-priced unit which ideally supplements the Amcoil DeLuxe model.



*WITH HEAT EXCHANGER Humidifier included in list prices; valves, controls, etc., extra.

Big sales opportunities for dealers in this low-priced unit that combines many teatures of the De Luxe Food Conditioner. For high relative humidities up to 85%, and temperatures down to 36° F.

STEP UP YOUR SALES AND PROFITS WITH THESE NEW AMCOIL MODELS

DE LUXE FOOD CONDITIONER

A complete refrigeration system, except for condensing unit, which automatic-ally preserves food without dehydration or shrinkage in Reach-In and Walk-In Coolers.



Model 15° MTD Price FC - 50 FC - 80 FC - 130 FC - 160 7,500 11,300 17,000 22,600

ALSERVICE REACH-IN PANEL UNIT A compact cooling unit for all refrigeration applications. Designed to meet a growing demand for medium-capacity units to balance condensing units of 1/4, 1/3, 1/2 or 3/4 hp. Especially suited for reach-in and small walk-in boxes where temperatures of 36° F. are required.

Model 15° MTD RI-15 RI-20S RI-25 RI-30 RI-40 RI-45 2,000 3,600 2,250 3,000 5,250 6,150 \$ 94.00 129.00 99.00 114.00 149.00 169.00 CEILING MOUNTED TWO-WAY MODEL UW UNITS List Prise \$129.00 160.00 190.00 2,200 3,200 4,500 5,800 9,000

DISTRICT OFFICES

Philadelphia Office: Chicago Office: M. H. McTurk, Mgr. H. C. Moore, Mgr. 3510 Spring Garden Street 215 W. Ontario Street

2 · AMCOIL · GERICAN COILS CO.

They'll Do It Every Time . . . By Jimmy Hatlo



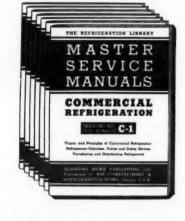
Buy VICTORY Bonds



BOOKS ON COMMERCIAL REFRIGERATION

Thousands of refrigeration men have ordered these useful books.

See them at your nearest refrigeration supply jobber.



COMMERCIAL REFRIGERATION

by K. M. Newcum

MANUAL NO. C-1-The theory and principles of refrigeration presented in a more complete manner than in household manuals. Properties of refrigerants, including effect on lubricating oils. Types of refrigerant cylinders, valves, and safety devices. Methods of drying and transferring refrigerants. 96 pages. 59 illustrations. 10 tables. Price \$1.00.

MANUAL NO. C-2—Installation and service methods.

Detailed information on commercial condensing units

and their component parts. Water regulating valves,

both electric and pressure-actuated types. Flooded

evaporators and low side float valves. Two-temperature

flooded systems. 112 pages. 108 illustrations. Price \$1.00.



Soda Fountain Refrigeration

by Arch Black and Dean C. Seitz

MANUAL NO. SF-1-Development of mechanical refrigeration applications for ice cream cabinets, soda fountains, creamer Two-boiler creamer units-construction, installation, service. Thermo-syphon systems for one and two-boiler units. Service. Three-boiler soda fountains. Pressure and temperature valves. Refrigeration of jar enclosures. Methods. Service valves and controls. Liquid Carbonic fountains-installation. operation, service. Direct expansion Russ fountains. Service complaints, remedies. 104 pages. Price \$1.00.

MANUAL NO. SF-2-Bastian-Blessing 1936 and 1937-38 hookups, using Frigidaire water coolers, complaints and remedies. Brunswick-Balke-Collender 1936-37 and 1938-39 hookups, using Temprite flooded-type coolers. Pressure and expansion valves. Accessory fixtures multiplexed to fountains-sandwich tables, back bar base. Fountainettes. Bob-tail units. Calculations and tables for determining load requirements, condensing unit sizes. Carbonator construction and service. 96 pages. \$1.00.

MANUAL NO. SF-3-Ice cream counter freezer installation, operation, and service methods. Service complaints and remedies for all types of counter freezers. Price \$1.00.

MANUAL NO. C-3-Installation and service methods continued. Chapters on expansion evaporators, including blower units and all modern types. Thermostatic and temperature controls. Refrigerant control valves.

Electric motors, starters, overload relays. 144 pages.

116 illustrations. 7 tables. Price \$1.00.

GUARANTEE—All Refrigeration Library manuals are sold on a money-back guarantee. If you are not satisfied, return the books within 10 days and your money will be refunded.

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VOLUME 46, No. 18, SERIAL No. 876, DECEMBER 31, 1945

Electronics—An Appraisal of **Peacetime Prospects**

7AR-DEVELOPED uses of electronics—when finally revealed in their entirety-will astonish the nation.

So long as any fighting remained to be done, anywhere, our armed forces were calling for more electronic devices than the industry could produce.

But the reconversion period for the electronics industrythough delayed—is likely to be much shorter than that which other industries may experience.

Manufacturers of electronic devices in some cases need to change only the application and "housing" of their products in order to present postwar consumer items.

Their present tools, and trained employes, can be utilized almost entirely for the production of peacetime goods which consumers will "go for."

Here are a few samples: walkie-talkie radios, by means of REFRIG which friends may converse while taking their evening strolls at opposite ends of the city, and which will permit a sales manager to keep tabs on his salesmen nightly, without the necessity of recourse to those hated report forms.

Radar, which can be employed to prevent accidents at sea. on railroads, in the air, and even on the motor highways.

As for industrial heating and industrial process controls, electronic devices may compete with those interesting new refrigeration applications for the title of "most useful new development born of the war." They'll make possible the elimination of the human-error element to a degree never before considered probable.

In both preventative and healing therapy, electronics will play a Florence Nightingale role.

New radionic rays will speed and insure healing, will annihilate germ armies at the outset of their invasions, and will introduce hitherto-out-of-reach microscopic studies which migh reveal the mysteries of filterable viruses.

And these are but hints, Mr. Appliance Dealer, of the electronic miracles still to be revealed.

To sell and service television and electronics equipment the industry can draw upon thousands of already-trained G. I. Joes. Both the Navy and the U. S. Army's Signal Corps have given large numbers of pre-selected young men the equivalent of a college course in electronics-and their field experiences have made these lads resourceful beyond peacetime

These boys—some of them with bonus-cash-plus-loan-credit facilities of \$5,000 to \$10,000, in addition to their training and their pep, will furnish the industry and the nation with a nucleus of key specialty dealers.

Present-day specialty dealers interested in this field wil not be asleep, either. They'll hire these lads as sales engineers service managers, sales managers, demonstrators, and whatnot

It will be like finding money when they put these expensively trained superbly conditioned lads on the payroll.

Any way you look at it, the coming industry of electronic appears to offer mighty interesting prospects for specialty selling organizations.

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Detroit Intends to Use 'Common Sense' In Enforcing New Refrigeration Code

By C. Dale Mericle

DETROIT-"We intend to enforce petroit's new refrigeration code as rigidly as justice permits, but we know that you can't draw up a law to cover every situation," declared H. H. Mills, chief safety engineer of the City of Detroit, who addressed the Detroit Section, American Society of Refrigerating Engineers, at the Rackham Foundation here recently. In discussing the code, Mr. Mills emphasized that "common sense" must be used at times in interpreting the code, even though its provisions are to be followed as strictly as possible.

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> Licensing features of the code were outlined at some length. All contractors must have a contractor's license for all repair and installation work, regardless of size of the equipment, stated Mr. Mills. Permits or work on individual systems, however, are not required for systems containing less than six pounds of refrigerant, but such work must be ione by a licensed contractor or men n his employ, he explained.

THREE TYPES OF LICENSES

Contractors, he added, are licensed three grades: A-for domestic work only; B-for installations up to tons; C-for all sizes. Type C censes are restricted as to the rerigerants with which the contractor familiar, he said.

The code applies to all new sysems installed in the city of Detroit,

REFRIGERATION ACCESSORIES

and to all existing systems when the later are repaired or replaced.

The code indirectly outlaws multiple apartment house installations, said Mr. Mills, by limiting the amount of refrigerant that may be employed by the size of the smallest area to which it is supplied.

"Manufacturers at first raised objections to the code's applying to very small units, such as bottle beverage coolers, ice cream cabinets, etc., saying that these were too small to cause any trouble," commented Mr. Mills.

"However, we feel it necessary to keep track of all toxic refrigerants in institutional and public asembly occupancies," said Mr. Mills to explain why these units are covered by the code.

Pointing out that the code provides for a five-man examining board responsible for conducting both oral and written examinations monthly of applicants for licenses, Mr. Mills stressed the more strict requirements for obtaining a contractor's license. To qualify for a license a contractor must have had three year's experience or be a college graduate with one year's experience. He may also obtain a license if he employs a man who can qualify, stated Mr. Mills.

WEEDING OUT PROCESS

"With the weeding out of applicants, the quality of contractors will be more of a credit to the industry," he opined.

Among other provisions of the code mentioned by Mr. Mills was one requiring that refrigerant piping be inspected by the city before it is sealed up in walls, etc. As an aid to contractors, the code provides that contractors must notify the safety department a day in advance that the piping will be ready for inspection. If inspectors do not look the job over within 48 hours, the contractor may proceed with the installation.

Users of refrigerating systems of more than 1 ton capacity must take out an operator's license anually, Mr. Mills added. If the license for an individual system is issued for one refrigerant, a different refrigerant cannot be substituted without first obtaining the safety department's approval.

Another section of the code calls for identifying marks or symbols or fittings, tubing, etc. which show, or provide information for determining, pressure limits on such items.

The breakdown of various types of 'occupancies" governing installations of systems was outlined briefly by Mr. Mills as (1) institutional, (2) public assembly, (3) residential, (4) commercial, and (5) industrial.

REQUIREMENTS DIFFER

Requirements are most strict for institutional occupancies, least for industrial. Mr. Mills explained that it was chiefly a matter of safety, since, for example, it would be dangerous if refrigerant escaped in a hospital, but would perhaps not be so serious in an industrial type occupancy where there are generally few

Following his discussion of the code, Mr. Mills, assisted by John Rehard and L. C. Gage, city refrigeration inspectors, answered questions brought up by A.S.R.E. mem-

The statement that the code requires sweated joints in institutional or public assembly occupancies be made with 1,000° solder and withstand a pull-apart test equivalent to 500 lbs. and that 95-5 solder which fuses between 350° and 500° F. must be employed on domestic systems prompted Frank Carter of Detroit Lubricator Co. to ask:

"Does the code cover all joints in the system or just those made in the

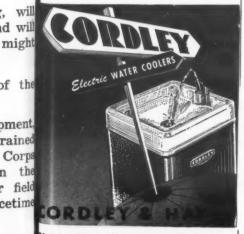
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Phone 5-4000 Phone 3-4000 "All joints," said Mr. Mills.

"How about a screw joint sealed with soft solder?" inquired Mr. Carter.

"If the joint is held without sealing, soft solder can be used as a seal against leaking," declared Mr. Mills, adding that "if the joint wouldn't be held tight with just a solder seal we wouldn't approve that

Robert C. Doremus, chairman of the Detroit A.S.R.E. section, commented: "There's a lot of education to be done among architects. I've gone out on air conditioning jobs where architects have planned the location of refrigeration machinery under stairs and in other locations in direct violation of the code."

Mr. Rehard remarked that installers have lately been using too soft copper for refrigerant lines, and after Jan. 1 hard copper only will be permissible, unless the soft copper tubing is buried and placed in a satisfactory conduit.

"Manufacturers should acquaint themselves with the code," advised Mr. Mills. "With a few devices we have had some trouble in the past."

Mr. Gage at this point was reminded that "every once in a while we find someone installing a frangible disc above the safety valve. It must be installed below the valve and be set to break at 90% of the safety valve's setting."

To aid in servicing two safety valves may be employed, provided they are connected to a three-way valve, Mr. Gage pointed out. This permits one safety valve to be cut out of the system while simultaneously bringing the second valve into the circuit.

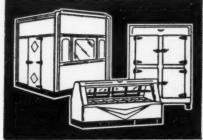
Workers 'Test' First Beer Dispensers



Return of production of the R. Perlick Brass Co. (Milwaukee) line of direct draw beer dispensers was recently celebrated by the company's workers. Still working on back orders, Perlick is presently limiting production to the standard two and three half-barrel models.







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There's No Doubt of Television's Future Despite Today's Obstacles, Experts Say

By Ross Potter

CHICAGO - What television and frequency modulation will be doing next year, and in the next five years to come, were described to the International Association of Electrical Leagues at their tenth annual conference in Chicago recently.

Seymour Mintz, advertising director for Admiral Corp., and A. H. Brolly, chief engineer of Chicago's radio station WBKB, gave long range surveys showing that both these projections of radio will go through an extensive teething period before they are ready to take a bite into the consumer market.

Each man after his talk took on a question and answer session that revealed the direction of the interest of his audience, comprised of 50 executive officers and key men from electrical leagues throughout this country and Canada.

TWO GREAT OBSTACLES

"Television broadcasting has two great obstacles to clear before it can hit its stride," said Mr. Mintz.

"The first of these is mechanical. Televsion broadcasting follows a straght line; its effective radius is no farther than the distance from the top of the transmitter to the immediate horizon.

"If you raise a transmitter tower 500 ft. high, you can get a radius of 55 miles, no more. If you can rig one 600 ft. high, you can reach per-That's about the haps 70 miles.

limit, and it isn't very far.

"The second obstacle is one that time and natural growth will work out-the small number, so far, of transmitting stations, television receivers, experienced personnel, and advertising contracts. They're all part of the process of growing up."

Several methods are under trial to solve the line-of-sight limitation, Mr. Mintz disclosed. Television systems could be relaved from station to station across the country. Or the programs might be carried by wire, with booster stations to kick them along. Or by "stratovision," in which planes 30,000 ft. up, giving them a 200-mile radius, could pick up the programs in turn and pass them along.

COST PROHIBITIVE FOR SERIES OF STATIONS

Each of these faces further research, however, he stated. The cost of a succession of stations could be prohibitive. A tower 200 ft. high will cover everything within 15 milesbut one of these every 30 miles across the country would mean a considerable investment. Even so, such a system is now being tried between New York and Boston.

Special wire is needed for relaying by wire, a coaxial cable tubing of copper half as wide as a dime, with a heavy copper wire inside that will conduct 480 simultaneous telephone conversations-or one television program. Coaxial cable is still in the development stage, but a relay system using one is now being tested between New York and Washington, D. C.

The stratovision circuit has been given wide publicity, and certainly it is a startling idea, but it still has yet to be tested. Storms, mechanical difficulties, and untried difficulties are ahead of it, also. Like the others, it may be the answer.

SUSTAINING PROGRAMS

For sustaining programs, of course, these obstacles are not so complex, Mr. Mintz pointed out. The broadcasting troupes can be made mobile, or the television films can be run off in multiple and used simultaneously in as many stations as desired.

"The matter of growth can't be pushed-there are too many arms and legs that have to grow, too," he said in detailing the second major aspect of television's development.

"At present only six cities have television stations-New York, Chicago, Philadelphia, Los Angeles, Washington, D. C., and Schenectady, N. Y. Their broadcasts are within reach of 22 million people, but so far only 7,500 television receivers are

"It takes a lot of money and a lot of time and planning to install a television station of the size warranted by a big city," he continued. "Production facilities are still delayed by a shortage of materials and parts.

PRODUCTION DELAVED

"The same thing, of course, is true of television receivers, which

require condensers and loudspeakers and electronic tubes. But the regular AM receiver now in such demand also needs these parts, and because there is such an immediate market for regular radios, they logically will get the parts first."

Television sets have not yet been turned out on a mass production basis, Mr. Mintz explained, which really sums up the entire score. There are still bugs to be worked out of effective transmission and reception. These unalterably will

The same thing was true of radio 20 years ago, he illustrated. A good receiving set cost \$400 then; comparably good set today costs \$150. Television receivers also are high: \$300-\$500. They, too, will come down.

The experienced personnel needed will come largely from Hollywood he believed—cameramen, actors (for television will not allow working from scripts), makeup men, and all the props of a film production.

All these things must precede the big advertising contracts that will make television a self-sustaining and profitable business. And the absence of plenty of money, while it will not defeat television's progress, he said will nevertheless slow it down to going along on its own.

SUCCESS IS DEFINITE

But of television's success Mr. Mintz had no misgivings. Nothing else will equal television's reporting of major sports events, of catastrophes, or happenings of national importance.

"Institutional sponsors may have to stick to institutional advertising, but for a sponsor with something to show it will be not only dramatic and colorful but also convincinghis product will be shown in action overcoming competition, doing its job, and if he wishes, surrounded by 100 beautiful girls!

"Department stores already have used television to transmit fashion shows throughout their main traffic departments. The entertainmen world is another natural.

"These users of television will be the ones who make everyday people familiar with it, and sell them on it And until millions of receivers an in people's homes, television broadcasting cannot reach its peak.

"Meanwhile the other necessar improvements will be going onprogress in the cathode tubes used and on the projections screens that promise to replace direct view screens in a few years."

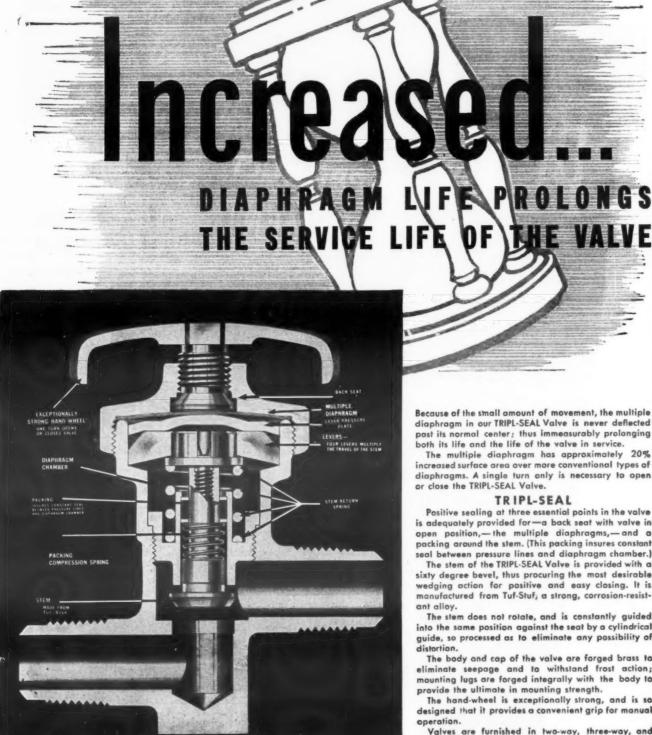
QUESTIONS AND ANSWERS ON TELEVISION

A number of questions followed Mr. Mintz's talk, and he and Mr Brolly between them answered thes as follows:

W. G. Hills, managing director the Electric Institute of Washington D. C.: Does that mean that exten sive tryouts with sets being bough by consumers is still ahead?

Mr. Mintz: If you mean will these improvements come so fast as obsolete a set in your own home, the

(Concluded on next page)



Because of the small amount of movement, the multiple diaphragm in our TRIPL-SEAL Valve is never deflected past its normal center; thus immeasurably prolonging both its life and the life of the valve in service.

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into the same position against the seat by a cylindrical guide, so processed as to eliminate any possibility of The body and cap of the valve are forged brass to

eliminate seepage and to withstand frost action; mounting lugs are forged integrally with the body to provide the ultimate in mounting strength.

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Growth of FM Radio Assured

(Concluded from preceding page) answer is no. That will take years. _{But} installation even in a private home will be an expensive investment for some years to come. A television antenna, for instance,

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must be high, high enough to be above the level of trees or buildings or any other physical interruption. Ralph G. Morison, president of Essex Electrical League, Newark, N. J.: Should any special type of cable or antenna be installed in houses now being built, in anticipation of television coming in later? Mr. Brolly: It's enough if you in-

stall ducts for cables. Allow for cables half an inch in diameter. For apartment buildings or duplex homes, allow for multiple cables. The maximum will be probably 300 watts. Carl H. Christine, manager of the

St. Louis Electrical Board of Trade: How can you look ahead and tell just where in any one room a woman is going to want to put her television receiver? How can you locate your ducts in light of that?

Mr. Brolly: As long as your duct runs from attic to cellar, it really loesn't make any difference. It is simply to route it anywhere on a given floor.

NO CHANGE NEEDED IN HOUSE WIRING

A. A. Gray, manager of Chicago's Electric Association: You mean television will require power outlets and insulation no different from those sed for anything else in the home? Mr. Mintz: That's right. The outlets, the same wiringsame No. 14, with five amperes a safe load maximum to plan for.

Mr. Hills: How about color television. Will that develop as fast as regular television?

Mr. Mintz: That's a different process, but it will come along right beside the black and white reproduc-

O. C. Small, secretary of the International Association: What is the outlook on distribution and selling of television receivers?

Mr. Mintz: They will be handled through the same channels as radio. And the necessary antenna will be included in the purchase price. Mr. Small: What about training

or television service men? Mr. Brolly: I would say that veterans trained in radar and high frequency work will be the best candidates for television servicing. Manufacturers probably will set up the service and repair schools.

PLANS FOR FM

Mr. Brolly's talk on frequency modulation was brief and statistical. "Frequency modulation, unlike television, is in distinct competition to amplitude modulation, the regular radio we use now. It is in effect an improved transmission of the same programs we listen to every day.

"As such, FM transmission has a harder row to hoe. For AM radio is established; it's a habit. It has 1,200 transmitting stations across the country, and 50 million receivers.

"There is a big market for the radios we are used to-the millions of sets that weren't bought during the war. For that reason, FM is going to suffer to a greater length the same delay that television will

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temporarily-all the parts that can be manufactured will go into sets that can be sold immediately, without further research or improvements: AM receivers.

"And technically, FM still has a long way to go. And the cost for FM sets at first will seem awfully high. I wouldn't guess how the complete price scale will run, but there won't be any sets for \$9.95.

"Actually, though, the coming of FM is inevitable. It will take a long time, but gradually it will replace AM transmission. And eventually its home receivers probably will be cheaper-and certainly a lot better -than your inexpensive sets are.

"Manmade static can blur FM reception, but the filters they have developed during the war will take care of that. As for natural static, you get perfect reception with an FM set under conditions that would be impossible with the radio in your home today.

"FM operates on a high and consistent frequency that eliminates fading and static. AM radio operates within frequencies between 500 and 2,000 cycles, or 1/2 and 2 megacycles. FM is up between 88 and 158 megacycles. And because FM ranges are constant, many more are acces-

"Like television, FM transmission also is in its infancy. It will call for a new school of technicians, because circuits at 100 megacycles are altogether in action and treatment from a circuit at one megacycle. And, like television, its technicians will come largely from the men who have been operating high frequency equipment in the armed forces. You have to know a little something about plumbing, too.

SOME CHANGES NEEDED TO USE FM SETS

"Antennas will be different, a new kind of lead-in wire will have to be developed, and better cables for transmission. But in spite of these problems ahead, FM will replace AM because it seems to work out that, whatever the engineer can conceive in improved performance, the production expert can turn out.

"There is, of course, much more room in the higher frequencies, most of all because the constancy allows more usable wave lengths within any given area. That means more stations can be licensed-100 already have been assigned, and the Federal Communciations Commission has released construction permits for 600

"More stations will mean lower transmission costs and less expensive radio time. More stations also will mean more receivers, so they will cost less, too. And the inexpensive FM receiver will give you program reception you would have to pay \$150 for today."

Mr. Christine: Aside from the promotional end, how much difference

Mr. Brolly: When conditions for AM reception are perfect, and you have a good set, the difference is But perfect AM reception is possible in only a few places in the United States, and there is no place where the weather is good all of the time; those are the odds.

One thing to consider is that most people themselves cannot catch perfect reception. The figures show that 80% of our own citzens have sufficiently little acuteness of hearing that only 30% of FM's improvements will get through to them.

F. N. Wolf, of the Nebraska-Iowa

Electrical Council, Omaha: Is the range for FM transmission the same day or night?

Mr. Brolly: Generally, yes. Most FM stations use direct ray broadcasting, with the tallest stations reaching out to a 100 mile radius, and the average station (with a 500 ft. transmitter), having a range a little more than 50 miles.

SIZES OF RECEIVERS

H. M. Silling, acting secretary of the Electrical League of Charleston, W. Va.: Will FM sets be made in all sized models?

Mr. Brolly: I would think so. Size is no factor in the reception. Ronald T. King, secretary of the Central Jersey Electrical League, Trenton, N. J.: About how many FM receivers are in use now?

Mr. Brolly: Probably half a million. John A. Morrison, managing director of Philadelphia's Electrical Association: Are different types of receivers necessary to receive AM and FM transmissions? It seems to me I've heard of one set for both.

Mr. Brolly: That is true only when a cabinet has the essential components for the two sets. You have a switch in a set like that, to have AM or FM. Actually, it takes two

HOW MANY CHANNELS?

W. P. Robinson, of the Passaic County Electrical League, Paterson, N. J.: How many transmission channels are there for AM and FM?

Mr. Brolly: I believe AM has 106 channels. A few of them have only one strong station, but most of them have smaller stations on the same frequency when those stations are so far apart that they can't jam each other. There are over 900 AM stations on the 106 channels.

FM transmission has room for several thousand stations. There are only 100 channels here, but they can be shared by many stations without confusion.

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is there between good AM and good FM reception? efrigeration GIVES BETTER SERVICE BECAUSE rigeration Specialists! **IUSSMANN** Refrigeration Equipment is dependable and efficient because it embodies the abilities and experience of more than 35 years devoted exclusively to this single, specialized field. Write today for more facts about HUSSMANN. TUSSMANN BLDG. ST. LOUIS 6, MO REFRIGERATION, INC.

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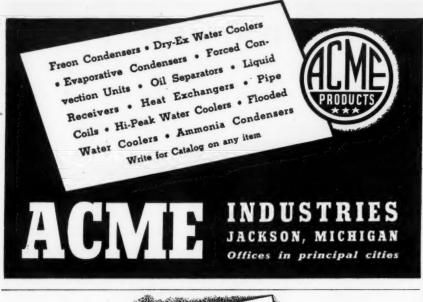
This important, growing frontier is doing a magnificent job. Keeping pace with the growing West is the California Refrigerator Co., of San Francisco and Oakland California, progressive jobbers in refrigeration and air conditioning supplies, replacement parts, equipment and tools.

Outstanding, indeed, is this company's record of long experience and dependability as an efficient source of supply, both for the present armed forces and the civilian trade. In this day of unprecedented distribution problems, concentrated and intelligent effort is doing an important job-for today and tomorrow.

Clarence F. (Sandy) Pratt, President 1077 Mission St., San Francisco, Calif. 441-23rd St., Oakland, California

"EVERYTHING FOR REFRIGERATION"







- always avoid. TZ destroys them promptly and stays to prevent future trouble.
- Systems now operating perfectly need TZ now to prevent future moisture. It's economical insurance
- 3. Units kicking up from molsture have been treated with TZ by engineers for eight years. It's still good practice.

refrigeration unit containing any refrigerant to:

- 1. Find present leaks.
- 2. Spot future leaks.
- Locate the source (leaks) of moisture troubles.

TRACE has that vivid, stay-red color. Caution: No color, no leak detection!

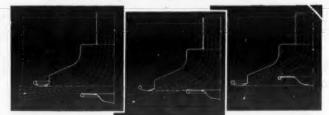
The T twins are congenial companions in refrigeration systems

HIGHSIDE CHEMICALS COMPANY NEWARK 4, N. J. 195 Verona Ave.,

How adjustable air diffusers increase the efficiency of supply air diffusion.

Better mixing of room and supply air, more uniform temperatures throughout the occupied zone and noiseless, draftless air diffusion are accomplished with

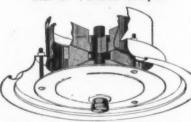
KNO-DRAFT adjustable Diffusers



Any desired angle from verticle to horizontal at your fingertip.

By simply turning the air adjust- Any desired volume of your fingertlp ment screws (easily accessible from Every KNO-DRAFT Diffuser can any KNO-DRÁFT Diffuser may be raised or lowered to secure any angle of air direction required by ceiling heights, system balancing, and individual or seasonal requirements. Thus the diffuser becomes more effective whether it is used in cooling, heating, ventilating, or combined systems, because it can expel chilled air parallel to the ceiling or eject heated air downward to prevent stratification.

Type K Adjustable Diffuser with D Volume damper.



under the unit) the inner cone of be equipped with a built-in volume damper (easily adjusted by handturning knob under diffuser) which varies the outlet aperture uniformly without affecting the outlet velocity or diffusion pattern.

> Thus KNO-DRAFT Diffusers can be adjusted quickly and accurately to the angle and volume needed to meet a wide variety of conditions, and as a result, the factors of temperature variation, temperature fluctuation, drafts and noise can be minimized considerably.

> The W. B. Connor Engineering Corp. maintains a staff of specialists and district representatives in leading cities to assist you with any air distribution problem.

FREE HANDBOOK

Contains clear sketches, charts, dimension prints and instructive text that simplify the selection and installation of air diffusers.

For your copy write Dept. A-10. Pat. and pat. pending CONNOR ENGINEERING CORPORATION

112 EAST 32ND STREET



NEW YORK 16, N. Y.

AIR DIFFUSION

World Trade News:

Factory for Colombia

CALI, Colombia, S. A .- Plans for construction of a factory for the manufacture of commercial refrigeration equipment, transfer of its main offices to Bogota, and expansion of its branches and agencies are now being worked out by Frio-Lux Colombia Ltda., South American Frigidaire distributor.

Frio-Lux announced that it has already signed a contract for construction of the first unit of the factory, to be erected in Pereira. A complete line of standard commercial cabinets, special commercial and industrial models, and insulation, doors, and accessories for built-in refrigerators will be manufactured there, the company said.

The first unit, to cover 30,780 sq. ft., will be built of brick and will have an asbestos tile roof. Future extensions are provided for by an adjoining tract of land measuring 71,220 sq. ft.

At the same time manufacturing activities are moved from Cali to Pereira, the main offices will be transferred to Bogota, where a branch office is already established.

The expansion program also calls for opening before Jan. 1 of company owned branches in Barranquilla and Bucaramanga to supplement a branch in Medellin and sales offices Bogota, Pereira, and Cali. Through these branches, Frio-Lux said it operates seven agencies and intends to appoint 11 more as soon as supplies are available for stocking

Frio-Lux affiliates have been set up in Chile, Peru, and Ecuador.

In addition to the Frigidaire distributorship, Frio-Lux represents Ilg Electric Ventilating Co., Creamery Package Mfg. Co., and other large manufacturers.

And One for Argentina

A large hydraulic drilling

nachine which utilizes a

Torrington blower wheel

for cooling the hydraulic

control panel.

DETROIT-Darkel, S. A., a new company just enfranchised by Nash-Kelvinator Corp., will construct a plant in Buenos Aires for the fabrication of Kelvinator products destined for distribution throughout Argentina, it was announced by George W. Mason, president of the corporation.

The new company, capitalized for two million pesos, was organized by described as group Argentine business men." The franchise was signed here by R. J. Hermitte, general sales manager of Darkel.

E. H. Wilcox, Kelvinator export manager, said the new assembly plant will produce refrigerator cabinets and a complete commercial refrigeration line, in addition to ranges and other household appliances. Mr. Wilcox, who returned recently from Buenos Aires, made a study of the postwar Argentine market which he described as "ample."

"This is especially true now since imports of refrigeration equipment have been paralyzed as a result of the war," he declared.

T. L. Lagos, chief engineer of the new company, is now studying production practices in Kelvinator's Michigan plants.

Another in China

NEW YORK CITY-Westinghouse Electric International Corp. announces that it has signed a contract with the Chinese National Research Commission to design and supply technical assistance for a \$40,000,000 plant to be built in China.

Egyptians Want Plants

CAIRO-Some Egyptians would like to see their country become the manufacturing center and distribution point for air conditioning, refrigerating, and other electrical equipment. Inquiries have been received by the Department of Commerce regarding possible establishment of branch plants of U.S. electrical manufacturers in Egypt.

And Also South Africa

BEHIND THE SCENE

there's a Torrington Air Impeller

High Speed Machine Tools Utilize Forced Air for Cooling

and Airotor blower wheels in this important field.

Modern machine tools using hydraulic systems or liquid coolants

are another field in which application of Torrington Air Impellers

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result from the use of Torrington Airistocrat propeller fan blades

Use our Air Impeller Specification Sheet for a preliminary ap-

praisal of your air impelling needs, for any type of product.

Then submit the data for the recommendation of our experienced

CAPETOWN, South Africa-Construction will start soon in the Union of South Africa on a factory to employ an estimated 5,000 workers for the manufacture of electrical goods, including refrigerators, washing machines, and radios. The project, reported by an African publication, is expected to cover most of a 45-acre tract of land already acquired.

An automatic precision nut

Torrington fan for cooling

Courtesy of Barnes Drill Co.

Canadian Washers in Brazil

Several Countries Getting

New Refrigeration Plants

BRAZIL-Electric household wash. ing machines of Canadian manufac. ture have appeared on display in several retail stores in Brazil, ac. cording to a report from the U. 8. Embassy in Rio de Janeiro. The em. bassy said it understood the washers have been placed on consignment to develop trade.

Vacuum cleaners and sewing ma. chines were among merchandise ar. riving in Brazil from Sweden this autumn, the report also said.

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U. S. Appliances Sought

WASHINGTON, D. C .- Contacts with an eye to the purchase, manufacture, distribution, or sales representation of household appliances and other electrical equipment have been made in the U.S. during the past two months by firms in 17 foreign countries-including two concerns in Iceland who want refrigerating units.

By the number of business establishments who have made inquiries to the Department of Commerce, or sent representatives to this country, Belgium has shown the most interest with 12 firms attempting to tap the American market. Next comes South Africa with five, and then Palestine and Portugal with three each.

Brazil, Egypt, France, Iceland, and Mexico have two concerns interested in U.S. appliance deals, Australia, Canada, Costa Rica, Cuba, Liberia, Panama, Syria, and Turkey have one each, according to the Department of Commerce list.

New Plant for Chile

CHILE - Approximately \$338,700 has been allotted for constructing and equipping a new three-story refrigerating plant, 120 meters long and 37 meters wide, at Talcahuano.

Rolston Goes to Mexico

MEXICO CITY-W. S. Rolston recently joined H. Steele Y Cia here where he will have charge of all procurement and technical activities in the Major Appliance and Radio Department. Mr. Rolston was formerly export product manager for the Crosley Corp.

The company has completed arrangements with a radio and a refrigeration manufacturer for production of radios and refrigerators under the company brand name of "Haste." They expect to make similar arrangements for other major appliances in the near future.

Resumes Export Program

LOS ANGELES - Resumption of Utility Appliance Corp.'s prewar export program was recently inaugurated when Perry Girton, owner of the Costa Rica Broadcasting Co. and radio station GIPG in San Jose, placed an order for blowers and fans. It was Utility's first official post-

war order for overseas shipment, according to Bernard Harris, sales

Mr. Girton's firm distributes major appliances throughout Central America. Bruce & Co., a Honolulu distributing firm, was one of the first Utility accounts to return by orderblowers and fans for the

ou

Hawaiian Islands, Mr. Harris said.

AIRO sincerely appreciates the loyal patronage and friendly cooperation given us by our customers and suppliers, alike, through the turbulent war years.

> Now, at the beginning of a peaceful and productive many friends in the trade a most prosperous new year.

AIRO SUPPLY CO. (NOT) WHOLESALE ONLY 2732 N. Ashland Ave., Dept. B Chicago 14, Illinois

engineering staff.

Air Impellers for Every Purpose



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NIAGARA "NO-FROST" METHOD WITH SPRAY COOLERS

... gives always full capacity because there is no interruption for defrosting at sub-zero temperatures; protects quality in foods.

NIAGARA BLOWER COMPANY 25 Years of Service in Air Engineering Dept. AC, 6 E. 48th St., New York 17, N. Y.



Walk-In, Beer Dispensing and Beverage Coolers

BLUE RIBBON FARM MILK COOLERS

la Crosse Novelty Box Mfg. Co. La Crosse, Wisconsin



VALVES AND FITTINGS

for Refrigeration

NORTHERN INDIANA BRASS CO. ELKHART, INDIANA .

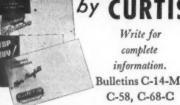


- DISPLAY CASES
- COOLERS
- REFRIGERATORS
- HOME FREEZERS

 AMANA SOCIETY

 AMANA, IOWA

REFRIGERATION

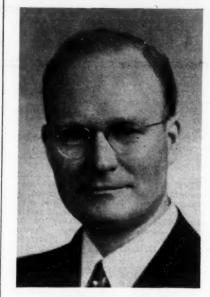


CURTIS REFRIGERATING MACHINE DIVISION of Curtis Manufacturing Company 1912 Klenlen Avenue • St. Louis 20, Mo.

Says GASKET JOE

COMPRESSORS FIXED
THE SEALS ARE TIGHT,
ANOTHER BOX IS
ALMOST RIGHT.
AND YET, MY FRIENDS,
THERE'S SOMETHING MORE.
BEFORE YOURE SURE
YOUR JOB IS PAT
YOU'VE GOT TO TAKE
A GANDER AT
THE GASKET
ON THE





HOWARD L. CLARY

New assistant general sales manager for Norge.

* * *

Norge Promotes --

(Concluded from Page 1, Column 4) refrigeration sales manager, has been named merchandise manager to correlate "the activities of all product sales managers," said Mr. O'Harra. He has been with Norge since 1934. No successor as household refrigerator sales manager has been announced as yet.

Mr. MacMahon, who has been successively a salesman, regional manager, product manager, eastern sales manager, and advertising manager for Norge, has been appointed director of advertising and public relations. He will be in general charge of advertising, sales promotion, sales training, publicity, and public relations.

Mr. Redden recently joined Norge as manager of sales training, and has now been named to succeed Mr. Clary as manager of sales promotion. He came to Norge after 20 years' experience in sales promotion and sales training with large corporations and advertising agencies.

Union Rejects--

(Concluded from Page 1, Column 5) vices, lamps, wiring devices, and similar related products.

"Therefore a break in the production of the products of this company would at a very early date force work stoppages for a very large segment of industry.

"It has been the company's declared policy to maintain prices of its products at approximately the prewar level," continued Mr. Wilson. "On a weighted average of dollar volume, it is estimated that present prices of the company's products are not more than 2% to 3% higher than prewar, even though the average prices of all products and services have increased 33% during this same period, as stated by the government.

"Four months ago, raw materials and purchased components were approximately 7% higher, on the average, than prewar. Since then, steadily increasing prices from our suppliers indicate that by mid-year 1946, the purchased material and components will represent an increase over prewar of approximately 11%.

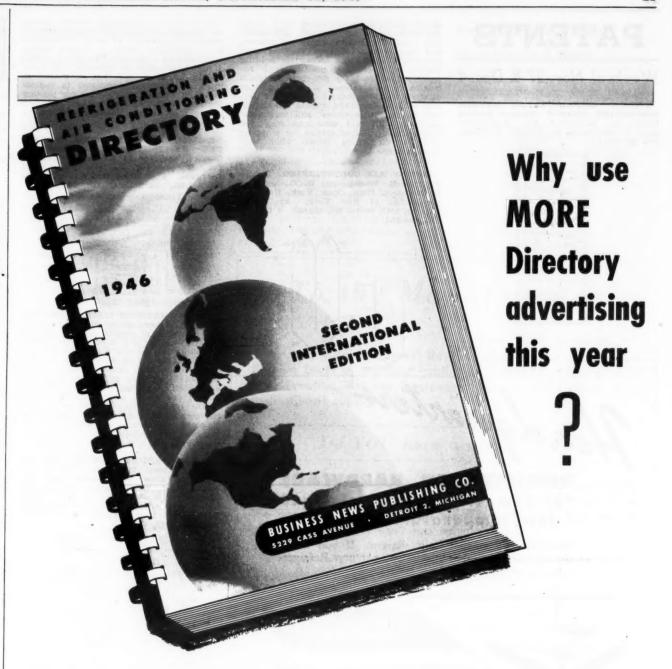
"Now if this additional wage increase of 10% is added to the earlier 30% advance in wage rates the total advance is more than 40% in labor rates since January, 1941."

In its letter rejecting the G-E offer, the union declared that the offer was not adequate to meet the needs of G-E employes, whose wages, claims the union, have been cut more than 50%, and was less than the 13.5 cent hourly increase offered by the electrical division of General Motors, which the union likewise refused.

In the West it's REFRIGERATION SERVICE INC. Pacific Coast Supply Jobber since 1928

Your letterhead will bring our latest extalog—also our House Organ,

"The Liquid Line"
3109 Beverly Blvd.
LOS ANGELES 4, CALIF.



because:

1. There are so many new buyers.

Many new companies have begun the assembly and distribution of home and farm freezers and unit air conditioners. Men returning from military service are setting up new dealerships and service companies. Old employes are using waryears incomes to start out "on their own."

There have been so many changes in personnel.

Even your old customers may not always know you; many a distributor and dealer has reorganized and enlarged his staff to go after postwar business, and to hold your old customers while you are winning new ones, you have got to know the man in the purchasing seat—and to see to it that he knows you. New personnel means possible new buying contacts.

It's a great Reborn Industry.

A new industry may be comparatively small for a big advertising effort. An old industry may have such stable buying contacts that they are near-impossible to shake. But in this great REBORN industry there are lots of buyers this year, new faces and old faces in new places, anxious buyers with a VITAL interest in WHO CAN SUPPLY WHAT, establishing and re-establishing themselves with the help of every scrap of buying guidance they can find. They need and want information. They want the whole story. You can keep your company, your products, your sales appeal, continually before them during the coming months with catalog advertising in the Refrigeration and Air Conditioning Directory.



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PATENTS

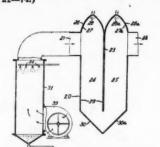
Weeks of Nov. 27 & Dec. 4

2,389,619. REPRIGERATED BOTTLE DISPENSING DEVICE. Thomas Francis Green, Jr., Richmond, Va. Application April 8, 1941, Serial No. 387,497. 6 Claims. (Cl. 62—102.)



1. A refrigerated bottle dispensing structure comprising a cabinet, a bottle cooling chamber in said cabinet, a plurality of opposed and oppositely inclined substantially J-shaped track forming members in said cabinet, said members being disposed in superposed relation and one portion of each member constituting a supporting means for holding bottles in disengaged position with respect to the track for pre-cooling certain bottles in said cabinet, a charging door carried by said cabinet confronting a portion of said members, means circulating cool air in said chamber, and means engageable with said door and connected with said circulating means for stopping said air circulating means when said door is opened.

2,389,698. AIR CONDITIONING. Harold T. Stowell, Washington, D. C., assignor to Research Corp., New York, N. Y., a corporation of New York. Application Dec. 30, 1941, Serial No. 425,003. 4 Claims. (Cl. 21—74.)



Headquarters

REFRIGERATOR HARDWARE for domestic, commercial and low temperature cabinets

Standard and custom built designs. If you are a manufacturer or jobber, write for our new Refrigerator Hardware Catalog No. R-88.



WANTED

AUTOMOBILE FACTORY SALES DEPT.

GENERAL PARTS AND SERVICE MANAGER

Top-calibre MERCHANDISING man—with technical background plus ability and experience to manage the sales department service organization.

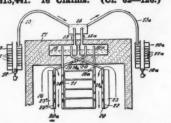
It is not necessary to have been service manager for an automobile factory. You MUST have had thorough experience and success in promulgating and directing merchandising programs on a national or near national scale, for automotive parts and accessories or other merchandise related to the automotive trade.

Write or phone G. H. Pratt, General Sales Manager, or, in his absence, N. K. VanDerzee, Assistant General Sales Manager. Inquiries will be kept confidential if desired.

HUDSON MOTOR CAR COMPANY
DETROIT 14, MICHIGAN

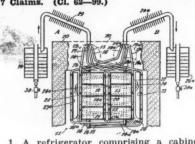
3. In an air conditioning system, means for adjusting to a predetermined amount the moisture content of air to be supplied to a conditioned space, a conduit having a metallic-surfaced reflective lining having a high coefficient of reflection for near-visible infra-red radiation, a source of infra-red radiation positioned to radiate into said conduit, and means for passing air from said moisture content adjusting means through said conduit and into a space to be conditioned.

2,389,967. REFRIGERATING APPARATUS. Nils Erland af Kleen, Stockholm, Sweden, assignor to Kleen Befrigerator, Inc., Hoboken, N. J., a corporation of Delaware. Application Oct. 3, 1941, Serial No. 413,441. 16 Claims. (Cl. 62—126.)



1. In a refrigerator having a thermally insulated storage space; the combination of a plurality of cooling sections divided into two groups and arranged to provide a cooling unit in said storage space having a plurality of channels for a circulating medium, each channel being formed between a separate pair of cooling sections, each pair comprising a cooling section of one group and a cooling section of the other group, and means to flow refrigeration fluid to each of said groups of cooling sections intermittently but in out of phrase relationship one group to the other.

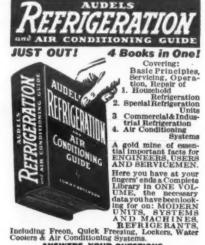
2,389,968. BEFRIGERATION. Nils Erland af Kleen, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J., a corporation of Delaware. Original application Oct. 3, 1941, Serial No. 413,441. Divided and this application April 24, 1943, Serial No. 484,377. 7 Claims. (Cl. 62—99.)



1. A refrigerator comprising a cabinet having a plurality of compartments to be cooled including two arranged side by side and adapted to be cooled to relatively low temperatures and another one adapted to be cooled to a relatively high temperature; and refrigerating apparatus including a plurality of cooling elements having alternate cooling and inactive periods and arranged in pairs including one pair disposed between said two first named compartments with one of the cooling elements of said pair in thermal contact with one and the other one of the cooling elements of said pair in thermal contact with the other one of said compartments, a second pair disposed on another side of one of said two first named compartments with one of the cooling elements of said pair in thermal contact and the other one of the cooling elements out of thermal contact with said compartment to provide a cooling channel for the air in said relatively high temperature compartment, a third pair disposed on another side of the other one of said two first named compartments with one of the cooling elements of said pair in thermal contact and the other one of the cooling elements of said pair in thermal contact and the other one of the cooling elements of said pair in thermal contact and the other one of the cooling elements of said pair out of thermal contact with said compartment to provide another cooling channel for the air in said relatively high temperature compartment, and means for operating one of the cooling elements of each of said pairs as a group and the other one of the cooling elements of each of said pairs as another group.

2,390,085. REPRIGERATION. Nils Erland af Kleen, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J., a corporation of Delaware. Original application Feb. 9, 1940, Serial No. 318,148. Divided and this application May 4, 1943, Serial No. 485,598. In Great Britain Aug. 3, 1939. 4 Claims. (Cl. 62—126.)

4. In refrigerating apparatus; a receptacle adapted to be supplied with refrigerant liquid, a down-pipe connected (Concluded on next page)



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ANSWERS YOUR QUESTIONS.

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per insertion. Limit 50 words.
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style. Box addresses count as five words,
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PAYMENT in advance is required for
advertising in this column.

POSITIONS WANTED

ACTIVE, INTELLIGENT, able man, thoroughly trained and experienced in refrigeration installation, sales, and service. Would like to take charge of refrigeration department in appliance or department store. Family man, desires permanency. Western location preferred. Write 3277 LYNDE STREET, Oakland 1, Calif.

EXPERT SERVICE MAN. Domestic, commercial, also F.H.P. motors. Wants job or business opportunity small town or rural area. Prefer South or Southwest. Three bedroom home or farm, 33 years, three children, U.E.I. graduate. Factory-Dealer-Independent experience 10 years. Fully equipped. Box 1865, Air Conditioning & Refrigeration News.

JOBBER SALESMAN: Young, capable, good personality. Ten years experience in refrigeration field, last eight years with same company. Experienced all phases — sales, application engineering, stock control, etc. Interested in managership wholesale refrigeration supply business. Can furnish references. Box 1884, Air Conditioning & Refrigeration News.

AVAILABLE: Refrigeration Service Engineer, age 38 years. Factory trained, 20 years experience domestic, commercial, ice cream cabinet, air conditioning, and home frozen food locker design, sales, and service. Would like position as service manager or representative for manufacture of refrigeration or mechanical equipment. Box 1886, Air Conditioning & Refrigeration News.

AVAILABLE: Executive Sales or Division Manager. Wide experience in national sales, personnel selection, sales training and sales management in intangibles and commercial refrigeration business. Location of headquarters in Boston with sales field, New England. Details at your request. Box 1890, Air Conditioning & Refrigeration News.

REGIONAL SALE or General Manager. Here is a solid deal for manufacturer or distributor in domestic and commercial refrigeration including frozen food equipment. Fifteen years experience, manufacturer to consumer to dealer or distributor. Have unusual clientele, national reputation. Will consider any strategic location. Box 1891, Air Conditioning & Refrigeration News.

POSITIONS AVAILABLE

WANTED: Heating and Air Conditioning engineer for job in Columbus, Ohio. Must be able to design complete heating and cooling systems, with a view toward the sale of equipment. Salary and opportunity to share profits. Give experience and expected salary. HEATING & COOLING CO., 331 East Town St., Columbus, Ohio.

SAN DIEGO, California. Wright Refrigeration Service requires first class service men at \$1.50 per hour with time and half over 40 hours per week. Steady work, lots of overtime, and the best climate in America. WRIGHT REFRIGERATION SERVICE, 1337 India St., San Diego, Calif.

FACTORY REPRESENTATIVES to contact jobbers and distributors by producers of the ZER-O-LINE of Frozen Food Packaging. Many territories open excluding South, Southwestern, and Pacific Coast states. Write advising areas now covered. YORKVILLE PAPER CO., INC., 431 East 77th St., New York 21, N. Y.

APPLICATION ENGINEER: familiar with technical and practical applications of heat transfer equipment wanted by refrigeration and air conditioning manufacturer located in Michigan. Please advise background and qualifications Box 1793, Air Conditioning & Refrigeration News.

COMMERCIAL application and service engineers. Large refrigeration firm with growing export business has openings in several territories for qualified retrigeration application and service engineers. Knowledge of foreign languages helpful Write giving full details experience and references. Box 1797, Air Conditioning & Refrigeration News.

ENGINEER, M. E., at least five years experience in design of quantity production, fractional horsepower, self-contained air conditioners or small commercial refrigeration equipment. New expanding engineering department in large company in East. Box 1870, Air Conditioning & Refrigeration News.

AIR CONDITIONING Sales Engineer: For well established Birmingham, Ala. firm. Must be sales-minded, clean-cut personality, have adequate air conditioning application engineering experience. For right man excellent earning possibilities, monthly base salary \$350 plus liberal commission resulting above normal income. Give complete information. Box 1876, Air Conditioning & Refrigeration News.

EQUIPMENT FOR SALE

CALIFORNIA LOCKER PLANT OPERA-TORS. You know the locker situation as well as I. Indefinite deliveries, damaged in shipment, disassembled, high freight. We are in production on our standard box and drawer combinations with the lock designed for freezer service. Write for information and prices. CHILL-DEE SYSTEM, Box 479, Lodi, Calif.

"CENTRAZ" VAPOR-SEAL. A waterproof adhesive that adheres to metal, wood, cement, plaster, etc. For lining frozen food and ice cream cabinets, milk and water coolers, walk-in boxes and all refrigeration applications requiring vapor control. Wall applications can be painted CHRISTY CO., 1530 Olive St., St. Louis 3 Mo.

FOR SALE. Remanufactured air and water-cooled condensing units ¼ hp. up to 1½ hp. Frosted food and ice cream cabinets. EDISON COOLING CORP., 310 East 149th St., New York 51, N. Y.

FREEZERS: Complete in every respect ranging in capacity from 8 to 25 cu. ft. Excellently constructed, nicely finished, all with stainless steel tops and stainless steel doors. Large supply blower collisted and freezer plates, all sizes. All equipment available for immediate delivery. Wire, write, phone GENERAL REFRIGERATORS CORP., 678 Broadway, New York 12, Stuyvesant 9-1222.

BEVERAGE COOLERS: 6 ft., capacity 22 cases; 8 ft., capacity 30 cases. These are dry coolers with heavy duty coils and one forced-air fan in 6 ft. model, two in 8 ft. model. Both have stainless steel doors and trim. Immediate delivery, GENERAL REFRIGERATORS CORP. 678 Broadway, New York 12, Stuyvesam 9-1222.

QUALITY DRY Beverage Coolers—75° long, 98" long, 28" deep, 39" high, with sliding stainless steel doors. Stainless steel freezers; beer pumps, blower colls, beer dispensers, tavern work benches, reach-in boxes, water coolers, new equipment. Most items immediate delivery. MAJESTIC REFRIGERATOR CORP., 625 Broadway, New York 12, N. Y.

SEALED CROSLEY units repaired, exchanged. Compressor heads only \$17.95, burnouts \$9.25 extra. Ceramics 95 cents each. Set of three \$2.75. Our book at \$5.45 illustrates our successful method of opening, repairing, and closing sealed Crosley units with ordinary shop equipment. Limited copies. SEALED UNIT PARTS CO., 3097 Third Ave., New York.

FARM AND HOME freezers, reach-in freezer cabinets, ice cream cabinets, commercial refrigerators. Immediate delivery, WILSON INDUSTRIES, 3533 Holland Ave., Bronx 67, N. Y.

200 UNIT Air Conditioners, 1½-ton, self-contained, with gas heat and refrigeration. Walk-in coolers and Marlo coils. New. H. A. WOODWORTH, 2651 Washington. St. Louis, Mo.

CONDENSING UNITS—¼ hp. up to and including 1½ hp. All standard make units, air cooled, AC motors. Box 1885, Air Conditioning & Refrigeration News.

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We are a growing and progressive Parts Supply Jobber seeking lines for the New York City Area. We can increase the sale of your products.

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Patents (Con't)

(Concluded from preceding page) for the gravity flow of refrigerant liquid from the bottom of said receptacle, an open fluid communication at its lower end with the lower portion of said downpipe and in open communication at its upper end with the upper portion of said receptacle, and an upwardly extending conduit closed at its upper end with the lower portion of said receptacle, and an upwardly extending conduit closed at its upper end and in open communication at its lower end with the lower portion of said down-pipe, said conduit being constructed and arranged

air and 4 hp. up ice cream ORP., 310

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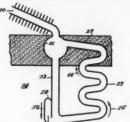
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provide an auxiliary zone of evapora-ion exteriorly of said evaporator coil, the ower open end of said conduit being saided by liquid in said down-pipe, and he vapor formed in said conduit regiodically breaking the seal to pass as volume of free vapor into said

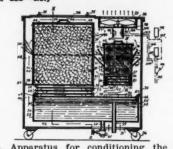
2,890,030. CHILLING CABINET. Theo-fore R. Paulson, South Bend, Ind., as-ignor to Mid West Sales & Service, Inc., South Bend, Ind., a corporation of Indiana. Application Jan. 12, 1942, Serial 50, 426,387. 8 Claims. (Cl. 312—174.)



A chilling cabinet comprising a con-iner having an opening in its top, a sure pivoted to said container to span aid opening, a work holder in said con-niner, an elongated arm pivoted to said ontainer and to said work holder and a am carried by said closure and engage-able with said arm to elevate said arm



2,390,104. COOLING AND DEHYDRAT-ING APPARATUS. Hiram Joseph Kaufman, Detroit, Mich. Application Peb. 23, 1942, Serial No. 432,014. 4 Claims. (Cl. 183—4.3.)



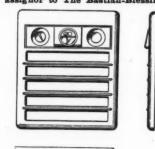
1. Apparatus for conditioning the air in an enclosed spaced by recirculation of air through the apparatus comprising a casing having an air inlet in the lower part thereof and having an air outlet in the upper part, means within the casing for forcing circulation of a stream of air from the space into the casing through the inlet opening and discharging the stream through the outlet opening, an ice container within the casing having openings for dripping discharge of water from melting ice, partition structure near from melting ice, partition structure near the intake opening directing the air drawn into the casing through said intake drawn into the casing through said intake opening through the dripping ice water, a dehydrant container for hygroscopic material within the casing dividing the air stream after passing through the dripping ice water and directing one division through the ice container in heat exchange relation with the ice in the container and the other division through the dehydrant container in contact with the hygroscopic material in the course of flow of the air to the discharge opening. flow of the air to the discharge opening.

2,390,182. REFRIGERATOR EQUIPPED 2,390,183. REPRIGERATOR EQUIPPED WITH A MOTOR-DRIVEN REFRIGERATING APPARATUS OF THE COMPRESSION TYPE. Hans Schirrmeister, Borlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Application May 23, 1940, Serial No. 336,692. In Germany March 31, 1939. 7 Claims. (Cl. 62—115.)



3. In an electric refrigerator, the com-3. In an electric refrigerator, the combination of a cold-producing refrigerant circulation system including a compressor, an A.C. motor for actuating said compressor forming a sealed unit, current supply means for connecting said motor with a D.C. supply circuit, including an inverting contact device inserted between said motor and said current supply means, and means including a second electromotor and means including a second electromotor for cooling the refrigerant circulating in said system, said second motor being connected with said supply means and actuating said inverting contact device.

143,080. DESIGN FOR A REFRIG-ERATOR PANEL. William S. Connell, Norwood Park Township, Cook County, Ill., assignor to The Bastian-Blessing Co.,



Chicago, Ill., a corporation of Illinois. Application Dec. 2, 1944, Serial No. 116,673. Term of patent 7 years. (Cl. D67—3.)

and work holder when said closure is opened, said cam being spaced from said arm when said closure is closed. Frigidaire Building New Office for Kansas City

NORTH KANSAS CITY-Completion of a \$200,000 Frigidaire district office and warehouse now under construction here is expected by early spring, P. M. Bratten, general sales manager of the General Motors division, said in announcing the breaking of ground.

Providing approximately 45,000 sq. ft. of space, the new building will house the Kansas City district offices, sales, display and meeting rooms, a zone shop for sealed unit repair, a complete parts department, a commercial shop and warehouse facilities. The structure, to be 160 ft. 280 ft., will serve the 180 Frigidaire dealers of the district.

Mr. Bratten said the building was necessitated by need for additional space to handle the increased variety and number of Frigidaire products soon to be on the market.

Western Thermal Moves To Larger Quarters

LOS ANGELES-Change to larger quarters by Western Thermal Equipment Co., manufacturer of Visoleak leak detection fluid for refrigerant systems, is announced by G. B. Bloom, president.

The new location is at 1701 West Slauson Ave., Los Angeles 44. It provides desperately needed additional space to consolidate office, factory, warehouse, and shipping facilities in one location, and facilitate further expansion of the company. Production has been started on Visoleak charging sets, for injecting Visoleak or refrigerant oil into systems. Other specialty items for the refrigeration trade are planned for production in 1946.

The property, owned by Western Thermal Equipment Co. but unavailable to it until recently, due to occupation by other concerns producing war materials, includes office building and separate factory and warehouse, with 240 ft. frontage on Slauson Ave.

G-E Ships First Burners From Bloomfield Plant

BLOOMFIELD, N. J. - Although reconversion of General Electric Co.'s air conditioning department plant here will not be completed until January, the first oil furnace boilers. produced in more than three and a half years are already on their way to distributors throughout the coun-

On a site not long ago used for the manufacture of vital parts of B-29's, production of the boilers by 1946 will reach a volume never before attained in the company's history, according to L. H. Hobson, sales manager for G-E's automatic heating division. Complete reconversion of the plant was necessary to take up boiler production from where it left off on April 30, 1942.

Welch Plans Cold Storages For Grape Juice

WESTFIELD, N. Y .- The Welch Grape Juice Co. has registered a new stock issue with the Securities & Exchange Commission. Proceeds will be used for a plant expansion program, including adaptations of plants at Westfield and North East, Pa., and those in Michigan for cold storage of grape juice.

Moxley New Product Head Arctic Engineering Takes For Westinghouse Lines

MANSFIELD - M. M. Feaman, manager of the water heater and dishwasher department of the Westinghouse Electric Appliance Division, has announced the appointment of Gordon W. Moxley as product supervisor of his department.

Mr. Moxley, who has been with Westinghouse since 1929, will be responsible for the preparation and following of production schedules for all items in his department, including water heaters, dishwashers, sinks, cabinets, and the new "waste away" garbage disposer unit.

Howe Line In 4 States

CHICAGO-The recently organized Arctic Engineering Corp. has been appointed exclusive distributor in Illinois, Indiana, Wisconsin, and Michigan for Howe Ice Machine Co.

Arctic will also handle Gebhardt circulator units for the food industry and conduct a complete contracting and engineering service in the refrigeration and air conditioning field.

William W. Morgan, active in commercial and industrial refrigeration organizations for 26 years, heads the Clarence J. Freestone new firm. is chief engineer.

To the Manufacturer

We are Manufacturers' Representatives with a Sales and Service Staff in the East—calling on dealers of Commercial Refrigeration, Kitchen Equipment houses, chain stores, and institutional supply houses.

Do YOU have a quality line?

We can represent one or two more lines tor above trade. Unestablished lines solicited. Must have quality and merit. We can stock for you, and bill if necessary. And can do promotion through our own advertising.

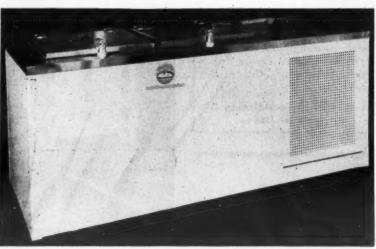
Write us fully in strict confidence. Financial and trade references gladly furnished based on 25 years of to dealer sales.

> **BOX No. 1882** Air Conditioning & Refrigeration News.



For the Dealer





Model ODAFF-20

O.P.A. \$500.00

15 cu. ft. capacity freezer.

Handle the Famous Pinnocchio and Crsco Freezers, as well as the Penachio Refrigeration and Refrigerator Lines

Dealers Wanted. Inquire-

COMPLETE REFRIGERATOR SUPPLY . "Pinocchio" and "CRSCO" Freezers 92 7th Ave. N. Y. N. Y. CHelsea 2-4245

Use An Accurate Ranco Control For That Replacement Job



Domestic and Commercial General Replacement. Control Type

For general replacement in Domestic refrigerators and Commercial water coolers, Ice Cream Cabinets, etc., use type KWS. Ranco Control. Its Stainless Steel Case makes it an instrument of beauty as well as utility, and one you'll be proud to install. Manufactured of finest materials and sturdily built for endurance, it is also precision checked throughout the process of fabrication, to assure greatest accuracy.

Ask Your Jobber About Ranco Controls

Ranco Inc.

COLUMBUS 1, OHIO



Interstate Aircraft Buys Revelation Co. Assets

EL SEGUNDO, Calif. — Interstate Aircraft & Engineering Corp. has purchased Revelation Co., of Los Angeles, and was to have been in full-scale production here Dec. 1 on Revelation electric water coolers and softeners.

Announcement of the transaction, which includes all Revelation's assets, business, and patents, was made by Don P. Smith, president of Interstate. Production of the appliances continued in Los Angeles while equipment, machinery, dies, small tools, and inventories were being moved here.

Mr. Smith said that Interstate is now accepting orders for immediate delivery of the coolers and softeners. Delivery will be made through the national and export sales distribution organization developed by Revelation, he stated, plus new domestic and export distribution sources now being established. He said Revelation's war-time export business included shipments to Panama, South America, Hawaii and the Far East, and to the Army and Navy.

Tentative plans were also announced by Mr. Smith for the manufacture of a complete line of cooling units for industrial and commercial uses. Other Interstate plans call for production of the established line of water cooler accessories, such as shelf bracket assemblies and pitcher and canteen fillers, as well as continuation of the development and manufacture of soft-drink vending machines, vacuum cleaners, refrigeration compressors, and gasoline motors.

In discussing acquisition of the Revelation Co., Mr. Smith said audited records showed a steady increase in sales volume since the firm began building coolers nearly 25 years ago.

"Sales were confined almost entirely to the line of electric water coolers," Mr. Smith explained, "for the water softener had been an engineering development over the

LARGE REFRIGERATION CO.

Has openings for experienced refrigeration salesmen to work abroad. Knowledge of foreign languages helpful. Excellent money making possibilities. Write giving full details, experience, and references.

Box 1794, Air Conditioning & Refrigeration News

ARLO
COIL COMPANY
SAINT LOUIS, MISSOURI



KRACK
ENGINEERED
UNIT COOLERS
FIN COILS
AIR CONDITIONING

Refrigeration Appliances, Inc. 923 W. Lake St., Chicago 7, III. past four years and is just now perfected and ready for volume pro-

Produced in sizes adaptable to every need, the coolers are described as designed to harmonize with the latest office and home furnishings. Interstate said the machines have a golden brown, hammer-tone finish of oven-baked synthetic enamel over a rust-proof priming coat; electrically welded and reinforced all-steel cabinets; and durable steel tops finished in white, acid-resisting, non-shattering enamel.

Exclusive Revelation designs said to be incorporated in the coolers are listed as the pre-cooler, the "Lo-Pressure" tank, and the cooling unit. The pre-cooler reduces the refrigeration unit's load by passing outgoing waste water over the incoming supply line, it is claimed, and the

"Lo-Pressure" tank is used on all one-bubbler models to eliminate flood danger.

The Revelation water softeners, designed to operate between 40 and 125 lbs. pressure a square inch and of capacities from 19,500 to 130,000 grains exchange, were described as incorporating a down-flow softening action and an up-flow regeneration action. The firm said the steel tanks, with flanged and dished heads, are electrically welded and pressure-tested to 200 lbs. a square inch.

"Softeners are available with either of two types of "zeolite," it was stated. "A white zeolite is employed to correct hardness caused by dissolved lime and magnesium compounds, while the black zeolite is used to correct problem water containing iron or manganese, in addition to hardness."

G-E To Manufacture Pepsi-Cola Coolers

BLOOMFIELD, N. J.—Beverage coolers of new postwar design and construction, and embodying the latest features in refrigeration and cooling will be produced for Pepsi-Cola Co. and its bottlers by General Electric's air conditioning department, according to a recent announcement by C. M. Rowland, G. E.'s manager of packaged cooling equipment sales.

The new Pepsi-Cola coolers, available to soft drink dealers, will be constructed in several sizes. The largest size will accommodate more than 11 cases of 12-ounce bottles, it was announced.

Honest Distribution --

(Concluded from Page 1, Column 2) against established legitimate chan nels of trade by selling directly to dealers who carry no stock, furnia no service, and have a minimum investment" also will be fought by the committee.

Mr. Wolk, who is serving as acting chairman of the new committee, said it was expected that permanent officers will be elected at a meeting to be held Jan. 3 in Chicago at the Hotel Stevens.

Present members include representatives of McCurdy's, Rochester N. Y.; Sibley, Lindsay & Curr Co. Rochester; Proctor Electric Co. Philadelphia; Shobe, Inc., Memphis and the Philadelphia Trade Relation Council.



Bush WALL MOUNTED PANEL COOLERS

The compact design of Bush Wall Mounted Coolers gives balance between amount of surface and air speed . . . assures excellent humidity control and high efficiency in operation. Ideal for market coolers with low ceilings where space is small and high capacity refrigeration is needed.

Construction especially sturdy to stand hard usage. Casing of corrosion resistant galvaneal steel, attractively finished in sanitary, white baked enamel. Available in various capacities and sizes to meet all conditions. Heat Exchangers specially engineered for each size.



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